

```

1 CCGCGCCGCC GTTTGGGCGG GGWAGCGATG TAGTAGCTGC CAGGCTGTCC
51 CCCGCCCTGC CCGGCCCGAG CCCC GCGGCC CGCCGCCGCC ACCGCCGCCA
101 TGAAGAAGCA GTTCAACCGC ATGAAGCAGC TGGCTAACCA GACCGTGGGC
151 AGAGCTGAGA AAACAGAAGT CCTTAGTGAA GATCTATTAC AGATTGAGAG
201 ACGCCTGGAG ACGGTGCGGT CAATATGCCA CCATTCCCAT AAGCGCTTGG
251 TGGCATGTTT CCAGGGCCAG CATGGCACCG ATGCCGAGAG GAGACACAAA
301 AAACCTGCCTC TGACAGCTCT TGCTCAAAAT ATGCAAGAAG CATCGACTCA
351 GCTGGAAGAC TCTCTCCTGG GGAAGATGCT GGAGACGTGT GGAGATGCTG
401 AGAATCAGCT GGCTCTCGAG CTCTCCCGAG ACGAAGTCTT TGTGAGAAG
451 GAGATCGTGG ACCCTCTGTA CGGCATAGCT GAGGTGGAGA TTCCCAACAT
501 CCAGAAGCAG AGGAAGCAGC TTGCAAGATT GGTGTTAGAC TGGGATTGAG
551 TCAGAGCCAG GTGGAACCAA GCTCACAAAT CCTCAGGAAC CAACTTTCAG
601 GGGCTTCCAT CAAAAATAGA TACTCTAAAG GAAGAGATGG ATGAAGCTGG
651 AAATAAAGTA GAACAGTGCA AGGATCAACT TGCAGCAGAC ATGTACAACT
701 TTATGGCCAA AGAAGGGGAG TATGGCAAAT TCTTTGTTAC GTTATTAGAA
751 GCCCAAGCAG ATTACCATAG AAAAGCATTA GCAGTCTTAG AAAAGACCCT
801 CCCC GAAATG CGAGCCCATC AAGATAAGTG GCGGAAAAA CCAGCCTTTG
851 GGACTCCCCT AGCAGAACAC CTGAAGAGGA GCGGGCGCGA GATTGCGCTG
901 CCCATTGAAG CCTGTGTCAT GCTGCTTCTG GAGACAGGCA TGAAGGAGGA
951 GGGCCTTTTC CGAATTGGGG CTGGGGCCTC CAAGTTAAAG AAGCTGAAAG
1001 CTGCTTTGGA CTGTTCTACT TCTCACCTGG ATGAGTTCTA TTCAGACCCC
1051 CATGCTGTAG CAGGTGCTTT AAAATCCTAT TTACGGGAAT TGCTGAACC
1101 TTTGATGACT TTAAATCTGT ATGAAGAATG GACACAAGTT GCAAGTGTGC
1151 AGGATCAAGA CAAAAA ACTT CAAGACTTGT GGAGAACATG TCAGAAGTTG
1201 CCACCACAAA ATTTTGTAA CTTTAGATAT TTGATCAAGT TCCTTGCAAA
1251 GCTTGCTCAG ACCAGCGATG TGAATAAAAT GACTCCCAGC AACATTGCGA
1301 TTGTGTTAGG CCCTAACTTG TTATGGGCCA GAAATGAAGG GACACTTGCT
1351 GAAATGGCAG CAGCCACATC CGTCCATGTG GTTGCACTGA TTGAACCCAT
1401 CATTGAGCAT GCCGACTGGT TCTTCCCTGA AGAGGTGGAA TTTAATGTAT
1451 CAGAAGCATT TGTACCTCTC ACCACCCCGA GTTCTAATCA CTCATTCCAC
1501 ACTGGAAACG ACTCTGACTC GGGGACCCTG GAGAGGAAGC GGCCTGCTAG
1551 CATGGCGGTG ATGGAAGGAG ACTTGGTGAA GAAGGAAAGT CCTCCCAAAC
1601 CGAAGGACCC TGTATCTGCA GCTGTGCCAG CACCAGGGAG AAACAACAGT
1651 CAGATAGCAT CTGGCCAAAA TCAGCCCCAG GCAGCTGCTG GCTCCCACCA
1701 GCTCTCCATG GGCCAACCTC ACAATGCTGC AGGGCCCGAG CCGCATACAC
1751 TGCGCCGAGC TGTTAAAAAA CCCGCTCCAG CACCCCGGAA ACCGGGCAAC
1801 CCACCTCCTG GCCACCCCGG GGGCCAGAGT TCTTCAGGAA CATCTCAGCA
1851 TCCACCCAGT CTGTACCAA AGCCACCCAC CCGAAGCCCC TCTCCTCCCA
1901 CCCAGCACAC GGCCAGCCTC CCAGGCCAGC CCTCCGCCCC CTCCCAGCTC
1951 TCAGCACCCC GGAGGTACTC CAGCAGCTTG TCTCCAATCC AAGCTCCCAA
2001 TCACCACCCG CCGCAGCCCC CTACGCAGGC CACGCCACTG ATGCACACCA
2051 AACCCAATAG CCAGGGCCCT CCCAACCCCA TGGCATTGCC CAGTGAGCAT
2101 GGACTTGAGC AGCCATCTCA CACCCCTCCC CAGACTCCAA CGCCCCCAG
2151 TACTCCGCCC CTAGGAAAAC AGAACCCAG TCTGCCAGCT CCTCAGACCC
2201 TGGCAGGGGG TAACCTGAA ACTGCACAGC CACATGCTGG AACCTTACCG
2251 AGACCGAGAC CAGTACCAA GCCAAGGAAC CGGCCAGCG TGCCCCCACC
2301 CCCCCAACCT CCTGGTGTCC ACTCAGCTGG GGACAGCAGC CTCACCAACA
2351 CAGCACCAAC AGCTTCCAAG ATAGTAACAG ACTCCAATTC CAGGGTTTCA
2401 GAACCGCATC GCAGCATCTT TCCTGAAATG CACTCAGACT CAGCCAGCAA
2451 AGACGTGCCT GGCCGCATCC TGCTGGATAT AGACAATGAT ACCGAGAGCA
2501 CTGCCCTGTG AAGAAAGCCC TTTCAGGCC CTCCACCACT TCCACCCTGG
2551 CGAGTGGAGC AGGGGCAGGC GAACCTCTTT CTTTGAGAGC CGAACAGTGA
2601 AAAGCTTTCA GTGGAGGACA AAGGAGGGCC TCACTGTGCG GGACCTGGCC
2651 TTCTGCACGG CCCAAGGAGA ACCTGGAGGC CACCACTAAA GCTGAATGAC
2701 CTGTGCTCTG AAGAAGTTGG CTTTCTTTAC ATGGGAAGGA AATCATGCCA
2751 AAAAAATCCA AAACAAAGAA GTACCTGGAG TGGAGAGAGT ATTCTGCTG
2801 AACGCGCAT AGGAAGCTTT GTCCCTGCT GTTAATGCGG GCAGCACCTA
2851 CAGCAACTTG GAATGAGTAA GAAGCAGTGC GTTAATATC TATTTAATAA
2901 AATGCGCTCA TTATGCAAGT CGCCTACTCT CTGCTACCTG GACGTTTATT
2951 CTTATGTATT AGGAGGGAGG CTGCGCTCCT TCAGACTTGC TGCAGAATCA
3001 TTTTGTATCA TGTATGGTCT GTGTCTCCCC AGTCCCCTCA GAACCATGCC
3051 CATGGATGGT GACTGCTGGC TCTGTACCT CATCAAATG GATGTGACCC
3101 ATGCCGCTC GTTGATTGT CGGAATGTAG ACAGAAATG ACTGTTCTTT

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FIGURE 1, page 1 of 2

3151 TTTT TTTT TTTT TAAACAATGT AATTGCTACT TGATAAGGAC CGAACATTAT  
 3201 TCTAGTTTCA TGTTTAATTT GAATTAAATA TATTCTGTGG TTTATATG

**FEATURES:**

5'UTR: 1-99  
 Start Codon: 100  
 Stop Codon: 2509  
 3'UTR: 2512

**Homologous proteins:**

Top 10 BLAST Hits

	Score	E
CRA 147000022595308 /altid=gi 10435148 /def=dbj BAB14506.1  (AK...	1500	0.0
CRA 335001098671246 /altid=gi 11560044 /def=ref NP_071580.1  na...	1331	0.0
CRA 18000005158484 /altid=gi 7662242 /def=ref NP_055674.1  KIAA...	645	0.0
CRA 335001098684832 /altid=gi 11425473 /def=ref XP_008288.1  KI...	645	0.0
CRA 335001098688185 /altid=gi 11431577 /def=ref XP_007992.1  hy...	452	e-126
CRA 335001098646266 /altid=gi 11545733 /def=ref NP_061830.1  SH...	421	e-116
CRA 18000004990129 /altid=gi 6677931 /def=ref NP_033190.1  SH3-...	390	e-107
CRA 89000000202138 /altid=gi 7300563 /def=gb AAF55715.1  (AE003...	264	3e-69
CRA 66000019404309 /altid=gi 8922344 /def=ref NP_060524.1  homo...	251	2e-65
CRA 18000005246399 /altid=gi 7512523 /def=pir  T12533 hypotheti...	190	4e-47

EST:

gi 10993873 /dataset=dbest /taxon=96...	1524	0.0
gi 11003732 /dataset=dbest /taxon=96...	1495	0.0
gi 12040806 /dataset=dbest /taxon=96...	1170	0.0
gi 10948137 /dataset=dbest /taxon=96...	1049	0.0
gi 11303345 /dataset=dbest /taxon=96...	1043	0.0
gi 7933255 /dataset=dbest /taxon=960...	918	0.0
gi 10332226 /dataset=dbest /taxon=96...	912	0.0
gi 11643637 /dataset=dbest /taxon=96...	906	0.0
gi 10348166 /dataset=dbest /taxon=960...	664	0.0
gi 4753575 /dataset=dbest /taxon=9606 ...	609	e-171

**EXPRESSION INFORMATION FOR MODULATORY USE:**

library source:

Expression information from BLAST dbEST hits:

gi|10993873 Neuronal teratocarcinoma  
 gi|11003732 Umbilical vein endothelial cell  
 gi|12040806 Iris  
 gi|10948137 Teratocarcinoma  
 gi|11303345 Breast  
 gi|7933255 Leiomios  
 gi|10332226 Uterus  
 gi|11643637 Kidney renal carcinoma (ascites)  
 gi|10348166 Uterus leiomyosarcoma  
 gi|4753575 Human fetal heart

Expression information from PCR-based tissue screening panels:

Human leukocytes

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1 MKKQFNRMKQ LANQTVGRAE KTEVLSEDLL QIERRLDTVR SICHHSHKRL
51 VACFQGQHGT DAERRHKKLP LTALAQNMQE ASTQLEDSSL GKMLETCGDA
101 ENQLALELSQ HEVFVEKEIV DPLYGIAEVE IPNIQKQRKQ LARLVLDWDS
151 VRARWNQAHK SSGTNFQGLP SKIDTLKEEM DEAGNKVEQC KDQLAADMYN
201 FMAKEGEYGK FVVTLLLEAQA DYHRKALAVL EKTLPEDRAH QDKWAEKPAF
251 GTPLAEHLKR SGREIALPIE ACVMLLLETG MKEEGLFRIG AGASKLKKLK
301 AALDCSTSHL DEFYSDPHAV AGALKSYLRE LPEPLMTFNL YEEWTQVASV
351 QDQDKKLQDL WRTCQKLPPQ NEVNFRYLIK FLAKLAQTSN VNKMTSPSNIA
401 IVLGPNNLLWA RNEGTLAEMA AATSVHVAV IEPIIQHADW FFPPEVEFNV
451 SEAFVPLTTP SSNHSFHTGN DSDSGTLERK RPASMAVMEG DLVKKESPPK
501 PKDPVSAAVP APGRNNSQIA SGQNQPQAAA GSHQLSMGQP HNAAGPSPHT
551 LRRAVKKPAP APPKPGNPPP GHPGGQSSSG TSQHPPSLSP KPPTSPSPSP
601 TQHTGQPPGQ PSAPSQLSAP RRYSSSLSPI QAPNHPPPPQ PTQATPLMHT
651 KPNSQGPPNP MALPSEHGLE QPSHTPPQTP TPPSTPPLGK QNPSLPAPQT
701 LAGGNPETAQ PHAGTLRPRP PVPKPRNRPS VPPPPQPPGV HSAGDSSLTN
751 TAPTASKIVT DSNSRVSEPH RSIFPEMHSD SASKDVPGR ILLDIDNDTES
801 TAL

```

#### FEATURES:

##### Functional domains and key regions:

[1] PDOC00001 PS00001 ASN\_GLYCOSYLATION  
N-glycosylation site

Number of matches: 6

```

1      13-16 NQTV
2      449-452 NVSE
3      463-466 NHSF
4      470-473 NDSD
5      515-518 NNSQ
6      796-799 NDTE

```

[2] PDOC00004 PS00004 CAMP\_PHOSPHO\_SITE  
cAMP- and cGMP-dependent protein kinase phosphorylation site

Number of matches: 2

```

1      494-497 KKES
2      621-624 RRYS

```

[3] PDOC00005 PS00005 PKC\_PHOSPHO\_SITE  
Protein kinase C phosphorylation site

Number of matches: 7

```

1      38-40 TVR
2      46-48 SHK
3      150-152 SVR
4      175-177 TLK
5      261-263 SGR
6      550-552 TLR
7      589-591 SPK

```

[4] PDOC00006 PS00006 CK2\_PHOSPHO\_SITE  
Casein kinase II phosphorylation site

Number of matches: 14

1	60-63	TDAE
2	83-86	TQLE
3	96-99	TCGD
4	109-112	SQHE
5	171-174	SKID
6	175-178	TLKE
7	214-217	TLLE
8	233-236	TLPE
9	261-264	SGRE
10	308-311	SHLD
11	349-352	SVQD
12	415-418	TLAE
13	468-471	TGND
14	742-745	SAGD

[5] PDOC00007 PS00007 TYR\_PHOSPHO\_SITE  
Tyrosine kinase phosphorylation site

117-124 KEIVDPLY

[6] PDOC00008 PS00008 MYRISTYL  
N-myristoylation site

Number of matches: 10

1	56-61	GQHGTD
2	251-256	GTPLAE
3	290-295	GAGASK
4	322-327	GALKSY
5	538-543	GQPHNA
6	574-579	GGQSSS
7	575-580	GQSSSG
8	605-610	GQPPGQ
9	704-709	GNPETA
10	739-744	GVHSAG

[7] PDOC00161 PS00178 AA\_TRNA\_LIGASE\_I  
Aminoacyl-transfer RNA synthetases class-I signature

706-716 PETAQPHAGTL

**Membrane spanning structure and domains:**

Helix	Begin	End	Score	Certainty
1	415	435	0.842	Putative

**BLAST Alignment to Top Hit:**

>CRA|147000022595308 /altid=gi|10435148 /def=dbj|BAB14506.1|  
(AK023281) unnamed protein product [Homo sapiens]  
/org=Homo sapiens /taxon=9606 /dataset=nraa /length=726  
Length = 726

Score = 1500 bits (3840), Expect = 0.0

Identities = 726/726 (100%), Positives = 726/726 (100%)

Query: 78 MQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQ 137  
MQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQ  
Sbjct: 1 MQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQ 60

Query: 138 RKQLARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAAD 197  
RKQLARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAAD  
Sbjct: 61 RKQLARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAAD 120

Query: 198 MYNFMAGEGEYGKFFVTLLLEAQADYHRKALAVLEKTLPEMRAHQDKWAEKPAFGTPLAEH 257  
MYNFMAGEGEYGKFFVTLLLEAQADYHRKALAVLEKTLPEMRAHQDKWAEKPAFGTPLAEH  
Sbjct: 121 MYNFMAGEGEYGKFFVTLLLEAQADYHRKALAVLEKTLPEMRAHQDKWAEKPAFGTPLAEH 180

Query: 258 LKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDP 317  
LKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDP  
Sbjct: 181 LKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDP 240

Query: 318 HAVAGALKSYLRELPEPLMTFNLYEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNFRY 377  
HAVAGALKSYLRELPEPLMTFNLYEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNFRY  
Sbjct: 241 HAVAGALKSYLRELPEPLMTFNLYEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNFRY 300

Query: 378 LIKFLAKLAQTSNVNKMTPSNIAIVLGNLLWARNEGTLAEMAAATSVHVAVIEPIIQH 437  
LIKFLAKLAQTSNVNKMTPSNIAIVLGNLLWARNEGTLAEMAAATSVHVAVIEPIIQH  
Sbjct: 301 LIKFLAKLAQTSNVNKMTPSNIAIVLGNLLWARNEGTLAEMAAATSVHVAVIEPIIQH 360

Query: 438 ADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKES 497  
ADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKES  
Sbjct: 361 ADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKES 420

Query: 498 PPKPKDPVSAAVPAPGRNNSQIASGQNPQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKK 557  
PPKPKDPVSAAVPAPGRNNSQIASGQNPQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKK  
Sbjct: 421 PPKPKDPVSAAVPAPGRNNSQIASGQNPQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKK 480

Query: 558 PAPAPPKPGNPPPGHGGQSSSGTSQHPPSLSPKPPTSPSPPTQHTGQPPGQPSAPSQ 617  
PAPAPPKPGNPPPGHGGQSSSGTSQHPPSLSPKPPTSPSPPTQHTGQPPGQPSAPSQ  
Sbjct: 481 PAPAPPKPGNPPPGHGGQSSSGTSQHPPSLSPKPPTSPSPPTQHTGQPPGQPSAPSQ 540

Query: 618 SAPRRYSSSLSPIQAPNHPPPPQPTQATPLMHTKPNSQGPPNPMALPSEHGLEQPSHTPP 677  
SAPRRYSSSLSPIQAPNHPPPPQPTQATPLMHTKPNSQGPPNPMALPSEHGLEQPSHTPP  
Sbjct: 541 SAPRRYSSSLSPIQAPNHPPPPQPTQATPLMHTKPNSQGPPNPMALPSEHGLEQPSHTPP 600

Query: 678 QTPTPPSTPPLGKQNPSPAPQTLAGGNPETAQPHAGTLRPRPVKPRNRPSVPPPPQ 737  
QTPTPPSTPPLGKQNPSPAPQTLAGGNPETAQPHAGTLRPRPVKPRNRPSVPPPPQ  
Sbjct: 601 QTPTPPSTPPLGKQNPSPAPQTLAGGNPETAQPHAGTLRPRPVKPRNRPSVPPPPQ 660

Query: 738 PGVHSAGDSSLTNTAPTASKIVTDSNSRVSEPHRSIFPEMHSDSASKDVPGRILLDIDND 797  
PGVHSAGDSSLTNTAPTASKIVTDSNSRVSEPHRSIFPEMHSDSASKDVPGRILLDIDND  
Sbjct: 661 PGVHSAGDSSLTNTAPTASKIVTDSNSRVSEPHRSIFPEMHSDSASKDVPGRILLDIDND 720

Query: 798 TESTAL 803  
TESTAL  
Sbjct: 721 TESTAL 726

>CRA|335001098671246 /altid=gi|11560044 /def=ref|NP\_071580.1|

nadrin; neuron-specific GTPase activating protein  
[Rattus norvegicus] /org=Rattus norvegicus /taxon=10116  
/dataset=nraa /length=780  
Length = 780

Score = 1331 bits (3406), Expect = 0.0  
Identities = 676/816 (82%), Positives = 697/816 (84%), Gaps = 49/816 (6%)

Query: 1 MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSICHSHKRLVACFQGQHGHT 60  
MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRS+CHSHKRL+ACFQGQHGHT  
Sbjct: 1 MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSMCHSHKRLIACFQGQHGHT 60

Query: 61 DAERRHKKLPLTALAQNMQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIV 120  
DAERRHKKLPLTALAQNMQEAS QLE+SLLGKMLETCGDAENQLA ELSQHEVFVEKEI+  
Sbjct: 61 DAERRHKKLPLTALAQNMQEASAQLEESLLGKMLETCGDAENQLAFELSQHEVFVEKEIM 120

Query: 121 DPLYGIAEVEIPNIQKQRKQLARLVLWDWSDVRARWNQAHKSSGTNFQGLPSKIDTLKEEM 180  
DPLYGIAEVEIPNIQKQRKQLARLVLWDWSDVRARWNQAHKSSGTNFQGLPSKIDTLKEEM  
Sbjct: 121 DPLYGIAEVEIPNIQKQRKQLARLVLWDWSDVRARWNQAHKSSGTNFQGLPSKIDTLKEEM 180

Query: 181 DEAGNKVEQCKDQLAADMYNFMAKEGEYGGKFFVTLLAQADYHRKALAVLEKTLPEMRAH 240  
DEAGNKVEQCKDQLAADMYNFMAKEGEYGGKFFVTLLAQADYHRKALAVLEK LPEMRAH  
Sbjct: 181 DEAGNKVEQCKDQLAADMYNFMAKEGEYGGKFFVTLLAQADYHRKALAVLEKALPEMRAH 240

Query: 241 QDKWAEKPAFGTPLAEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK 300  
QDKWAEKPAFGTPL EHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK  
Sbjct: 241 QDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK 300

Query: 301 AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNLVEEWTQVASVQDQDKKLQDL 360  
AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTF+LYEEWTQVASVQDQDKKLQ L  
Sbjct: 301 AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFSLYEEWTQVASVQDQDKKLQYL 360

Query: 361 WRTCQKLPPQNFVNFYRIKFLAKLAQTSVDNKMTPSNIAIVLGPNNLLWARNEGTLAEMA 420  
W TCQKLPPQNFVNFYRIKFLAKLAQTSVDNKMTPSNIAIVLGPNNLLWA+ EGTLAE+A  
Sbjct: 361 WTTTCQKLPPQNFVNFYRIKFLAKLAQTSVDNKMTPSNIAIVLGPNNLLWAKQEGTLAEIA 420

Query: 421 AATSVHVAVIEPIIQHADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERK 480  
AATSVHVAVIEPIIQHADWFFP EEFNVSEAFVPL TP+SNHS HTGNDSDSGTLERK  
Sbjct: 421 AATSVHVAVIEPIIQHADWFFPGEVEFNVSEAFVPLATPNSNHSHTGNDSDSGTLERK 480

Query: 481 RPASMAVMEGDLVKKESPPKPKDPVSAAPVAPGRNNSQIASGQNQPQAAAGSHQLSMGQP 540  
RPASMAVMEGDLVKKESPPKPKD VSAA P GRN++QI + NQ Q SHQLS+G  
Sbjct: 481 RPASMAVMEGDLVKKESPPKPKDSVSAAPVAGRNSNQITTPNQATGGNSHQLSVGTA 540

Query: 541 HNAAGPSPHTLRRRAVKKPAPAPPKPGNPPPGHPGGQSSSGTSQHPPSLSPKPPTRSPSP 600  
H+AAGPSPHTLRRRAVKKPAPAPPKPGNPPPGHPGGQSS GT SPKP TRSPSP  
Sbjct: 541 HSAAGPSPHTLRRRAVKKPAPAPPKPGNPPPGHPGGQSSPGT-----GTSPKPSTRSPSP 595

Query: 601 -----TQHTGQPPGQPSAPSQLSAPRRYSSSLPIQAPNHPPPQPTQATPL 647  
Q Q Q Q RR SSSL PIQAPNHPPPQPTQ  
Sbjct: 596 QQQQQQQQQQQQQQQQQQQQQQQQQQQQTGMRRCSSSLPPIQAPNHPPPQPTQ---- 651

Query: 648 MHTKPNSQGPPNPMALPSEHGLEQPSHTPPQTTPPSTPPLGKQNPSPAPQTLAGGNPE 707  
+ QGP +P TPPQTTPPSTPP KQN S E  
Sbjct: 652 --PRLGEQGP-----EPGPTPPQTTPPSTPPPAKQNSS-----QSE 686

Query: 708 TAQPHAGTLPRPRPVKPRNRPSVPPPPQPPGVHSAGDSSLTNTAPTASKIVTDSNSRVS 767  
T Q H GTLPRPRPVKPRNRPSVPPPP PPG H GD LT + PTAS+IVTD+NSRVS  
Sbjct: 687 TTQLH-GTLPRPRPVKPRNRPSVPPPPNPPGTH-MGDGGLTPSVPTASRIVTDNNSRVS 744

Query: 768 EPHRSIFPEMHSDSASKDVPGRILLDIDNDTESTAL 803  
E R+IFPE+HSD ASK+VPG ILLDIDNDTESTAL  
Sbjct: 745 ESLRNIFPEIHSDLASKEVPGHILLDIDNDTESTAL 780

FIGURE 2, page 4 of 5

**Hmmer search results (Pfam):**

Model	Description	Score	E-value	N
PF00620	RhoGAP domain	191.2	1.6e-53	1

**Parsed for domains:**

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF00620	1/1	266	415 ..	1	170 []	191.2	1.6e-53

1 CTCGTGGCTG AGTTTAATTA CACACTCTTG CTCTAGCTGT AAGGCAGAGC  
51 TCTCCAGGTT AGCTTCAGTG GACAATCTTT TCATGGTTTT CTCAGAGTTG  
101 TTTCTTCCAA TAGCCTCTTT TCAGCTAGGG GTCTCACTCT GTCACCCAGA  
151 CAAGAGTGCA ATGGTGTGAT AATAGCTCAC TGCAGCCTCA AATTCCTGGG  
201 CTCAAATGAT CCTGTTGCCT CAGCCTTCA ACTAGTTGGG AGTACAGGTG  
251 CATGCCACTG CTTCTGGCCT TTTTTTTTTT TTTAAATTTT TCATAGAGAT  
301 GAGGTTTTAG TATGTTGTCC AGGCTAGTCT CATACTCCTG AGCTCAAGTG  
351 ATCTTCCCAT CTTGACCTCC CAAAGTGCTA GGATTACAGG TGTGAGCCAC  
401 TGCACCTGGC CCCAGAAGAT AATTTTTTAT TTGTCTTTTA CTCTATGTTT  
451 AAATTCCTCA ATTTTTTGGT AGACTCTACT TTTTCAATTT GTAGAGCTTG  
501 CATGAATAGT GTTTTCCTTC TCTTGAAGTT TAGAGAGATC ATGTAAGTGA  
551 ATTCCTAGTG CACCTTGCTG TAACAAATTT TCCAGTTCTT CAATCTTTTC  
601 TTCTTAATTG CTTAGATTTT CTTGATGCTT ACAACTTATT TCCCTCAATT  
651 TCTGTTGATG AACATTCTGT AATACTGATA ATTCAAGCTG ATGGTCATCA  
701 GTATCCTGAC TTCTTTTTTG TTTGAGCTCC TTGATGATAT TAATATTTGG  
751 TGTTTGTAGT TTGTAGATTT CATTTTCATC AAAACTAGTT GTTCCTCCTA  
801 TTTTATAAGT CTGAGCAATA CATTTCCAAT GGCCAACTGG AGACTCAAGT  
851 TTTAGAACTT CATTGGACTA TCTGTTTATT TCTTGTATG ATGAAATTAT  
901 GTCATAAAAA CGTCGTGGAA CACTGAAGCA TGATGGGTAC  
951 CACATGGAAT GGAGGGGATG CAGTGTGGAT GGGAACCTCC GGCTTCCCT  
1001 GAATGTGCTG ACTCCAGGGC TGGCTGCCGG TCCTGCAACC GATCCTGTAG  
1051 TGCTTGCTTT CTTGTTTTAG GAAGGCTCAT TTCTACCTCT TTCTGTTGTA  
1101 ATGATGTGCG ATAACTTTTA GTTTGCTGCC CTATCTGAAG CTCTGATGCT  
1151 TCCTAGGTCT CTCCTAGGTC ACTAAAAAGA TCTTGAAGTC CCTCATTCTT  
1201 TGATATTAAG AATTCCAAAC TGGCATCAGT CTCCTTTATC CCATAGTTAG  
1251 GGAGCTCTTT CCTTTTTCTA TGACATTAG GAGCACATTT GAGATGTGGC  
1301 TGATGAAAGA AGCCACATTG CTGCCCATCC AATGCAAAGA AGGGGCTTAC  
1351 CTGGAGCCAA GGCCACCAA CCAGGAAGAC ATGAGTGTGT GAGCACGTGT  
1401 GTTAAGGAAA ACACACATTG ACTTTAATTT TTTTTTTTTT TTTTTTTTTT  
1451 TCGAGACAGG GTCTCTCACT CTGTTGCCCA GGCTGGAGTG CAGTGGCGCC  
1501 ATCTCGGCTC ACTGCAACCT CTGCCTTTCG GGTAAAAGCC GTTCTCCTGC  
1551 TTCAGCCTCC TGAGTAGCTG GGATTACAGG CGTCCACCAC CACGCCAGC  
1601 TAAATTTGTA TTGTTAGTAG AGACAGGATT TCACCGTGTG GGGCAGGCTG  
1651 CTCTCGAAGT CCCGAGCTCA AGTGATCTGC CCCCTCGGCC TCCCAAAGTG  
1701 CTGAGATTAC AACGTTGAAC CACTGCGCCC TGCTAGAAAC AGCTTTTCAT  
1751 ACGTTGAAAT AAACGAGAGG GTGACCGGGC AGCGTTGGGG TCGGGGAGGC  
1801 CAGGCGGAGG AGGCCTAGGG TCTTCTCGCC CGGGGCCTTC TAGCTCTTCG  
1851 CCCGTGTGAG GTAAGGCACT GTTAGCCTCG GCTCGGTTTC ACTCGGCTCT  
1901 ACTCGGGCTC AGCTCGGCTC GGCCAGACCT AGAGGGCGGG CGGGCGGTGC  
1951 CACTGGAAGT GACGAGGCGA GGGCGGGGCC GCGGGCCCGG GGAGCCACCG  
2001 CCGCGCCGCC GTTTGGGCGG GGAAGCGATG TAGTAGCTGC CAGGCTGTCC  
2051 CCCGCCCTGC CCGGCCCGAG CCCCGCGGGC CGCCGCGGCC ACCGCCGCCA  
2101 TGAAGAAGCA GTTCAACCGC ATGAAGCAGC TGGCTAACCA GACCGTGGGC  
2151 AGGCGAGTGC GCCGGGCAGC ACGGGGGTCG CACCGGGGCT GGGGGCGGAG  
2201 GCGGAGGGGC GCGGGGCGG GACGGCTCCT CCGCGGTCCG GCGGCTCTGA  
2251 GCTGGGCCGC AGCCCTGCC CGAGACCAGC GGGGCACGGG CCCGGGGGCT  
2301 GCGCCGCGCT GAGGCCCGAG CGCCGCGCTC CAGGCGGCCC GCCTGTCTCT  
2351 CAGCGCCGCC GGGCCCCCGA GACCTGCAGG GGAGGGCCGC CGCTCCTCC  
2401 GCCACACCGC GGGGTCCCCT GCCCATGTCT CCTGCCCGG GAGCATCGCC  
2451 CTCGGGGAGT AGACCCGGTC CTTCTCCTCC CTTCCCGGG GCGGAGCCAG  
2501 CTGGGATCGC TGCCCTGGGC TCAACAACGG TGAATTCGT CCCTAACGCT  
2551 GTGCCGAGCG CTGTGCTGTG GGGGGCGGCA GTCCAGGCT TTCCCGGTGC  
2601 TCCCCTGTT TGCGAGTCTT TCTCCTGTAA GTGCATGGCG GCAAGAAATG  
2651 GCTAGAGGGA CATGAAAGCC AGCCGATTT GCTCAGTGA TTCAGAACGC  
2701 CCTTTGAGGG AATTCGGAGG TGGTGCTGTC TCAAAACCAG GGCTCCTAGG  
2751 AACTGGACTG CTGCTGCCAG TTCTTGACAT TTAGAAATTA GGAATTGGCG  
2801 GAAAAGGATT ATGAGACGC CTGCGCCAA TTTAAAAGT CTCACCTTAG  
2851 GTTTGAAAC AAATGCTTCT TTATCTTCCT TTGCTACGGT TGAAGTGCTT  
2901 AACAAGAAAC GTTATTGATT ATTAAATGGC AGGCTAGACC AGAGTTGGTA  
2951 GATCAGGTTG TCAGAACAAG AAATGATTTG TGGTTTTTGA GAGTTTCTGG  
3001 AGGTGACTGT CATGTGCTGT ATTATCTGGG GCTAATATTT CAAGGTCTTT  
3051 CAGGGCAGCT GGCTGTACTG TACCGATTTA GTGTTTATTC AGCAAAGAGA  
3101 TACGAAAGTA TGAATTTCTC ACAGCTCTTC TTTTGATTTT CTGTTTTTAA

FIGURE 3, page 1 of 33



3151 CAGTTAAGGG GAGTTTGGTT TGGCTGAAGC ACGTGGGACA CTTCTTTTTT  
3201 TTGAGTGTAT GAAAATACTT TTACTTCCTC TCGAGTTTTTCAAATTTTGCT  
3251 TTTTACTGTT TCATTTCCCTC CATCTTTTTT CTTAGTTTTCC CTTGTTTAAAT  
3301 TTTTTCGATT CCCTACCGTA TTATTGTGGT GAGAATTAAC TCTTATTTTC  
3351 AGGGTTAATC GCTGCCCTTA AAGCCCAGAC AAACCTACTT TTCTGTTATT  
3401 TGCAGGAAAA TTAAAGAAAT AATGCTGAGA GGAAGGTAGA CGTGTGGTAA  
3451 TGGCGGCTGA TGTTTCAAGG AACAGTTTAC AAGCACATGA TAATTTCTTG  
3501 TGAGTTTCGT ACCCTTGTTA GTGTTCTGAG CAACGTGCAT TGTGGAACATA  
3551 GTATTTAGTA AGTGCCAAGA TACATTTGTC AAATAGTCGT TTGGCTTGTT  
3601 TTTACATTGT TCGTGACAGG TAAGGGACTT TCACTCTTTT TATACAAAGT  
3651 TCTGAGACTT AAATCTACCA AGCTATTTAG GGTCTCTTTG ACTCCTGGGT  
3701 CATCTTAGAG GCTTCTCCCT TCACACTTTT TTTTCTTTT GAGACAGGGT  
3751 CTCCCTTTGT CACCCAAGCT GGGGTGCAGT GGTGCGATCT TGTCTCATTG  
3801 CAGCCTTGAC TTCCCTGGGC TCAAGCGACC CTCTCGCCTC AGCCACCTAT  
3851 GTGGTTGGAA CTACAGGTGG GCACCACCAC ATCCGCTAAT TTTGTATTT  
3901 TTTGTAGAGT GGGGATTTGC CATGTTGCCT AGGGTGGTCT CGAACTCCTG  
3951 GCCTCAACTG ATCTGCCTGC CTTGGCCTCC CAAAGTTCTG GGACTACAAG  
4001 CGTGAGCCAC CTTGCCTGGC ACCTTCACAT TTTAAAATTC CGGCCATGCT  
4051 TGCTTACCTT CAGTTTCCAC AGGAGGTCTT GCTTTCTTAC CTGCTAGCAT  
4101 CTACTTGGA CTTCTGGAAG CCTCTCCAC CACACCTTTT CTCCAGGCAC  
4151 CTCTTGCTCA TTCTTCAGCC TTCTGGGAAA GGTCCCTCTG CCTCTGAAAG  
4201 GCCTTCTATG ATGCTACAGC ATAGATTGGA TGCCTCTCCT GGGCGTTCTT  
4251 GTAATCCTGT GTAGCACTTG CTTTCTGTG CTGTGACTGC CTCTTGTGTG  
4301 TGTCTCCAT CAGATAAATA CCTTGAGAGT CCTTGCTGTG TCTCCTTTGA  
4351 TTCCAGGCTT GCTGTGTTG TTCTACCCA TGGCCAGGGT GCAGTAGACA  
4401 TTTGTTAATTC TGGTATTTGA GTTCTTACTA GATCGCCTTG GTGGTGTGGG  
4451 CCCGAGTATG GGAAAACATG AAGTGGATAG AGTAGATGGT GATTCAATGCT  
4501 GGAGCTGTAA TTCTGGGCCCT GACCTTTGAC TGTCTTTAAA AATCTTTATT  
4551 GCTAGATGCC AGTGGAAGCT GAAGCTATTA CAGAACTATT AAGGGTGTGG  
4601 CAATTATGCA CCCAAAGTCA GAACATCTGT TTTTAACTGG GAAACCTGTT  
4651 GCTTCCTTGC TGTGTATTTC CTAGATGTGT GTGTGTATGT GTTTTCTGCT  
4701 TAAAGTAATCA GAAAGACTA AGGAAGATAA ACGGAGGCTG GAGAGTGCCT  
4751 AGAATTGTTA CTGCTTGGA GTAGGTGGTT GGTGGCCCC AGAATCAGGA  
4801 TTCTGGGTGT TTTTAGGTCA AGATGAAGGC TACAAAGCAA AGGGTTTTTT  
4851 TGTTCGCGC CTGCGCATCT AGGTGGAGAA GGAAGTTATA TATGTGAATG  
4901 TCATGCCCCAT CGTGTTTTGG TTTATCAATT TGTGGAATTC TAGGTGGTGT  
4951 CTTGCAGTGA GATATTCTCC TCAGAAGGGA GACCTTTGAG TACTTTCCT  
5001 GTAAAGTTCC AGGGGAGGGA CTTGTAGAGA ATTAGTAATG CCTGGAAGGA  
5051 ATGAGTTCGC ATGATGCAGT TTGTTTACGA TGGGTGGGTA AGTCTATTTG  
5101 AGAAGACGGC CTGAAACTCA CAGGGGCAAG GCTTATGAGG TGGTCTCATG  
5151 GTGTGAGTGT CCCAAAGAAG AGAAGTAGGA TGGTTCTTTT AGTCCACCTG  
5201 CCTTTTGTG ATTCTATGCAT TCAACAGACA CTTGTTGAGC CTACACTGTG  
5251 TCCTGTTATC CAGGGTATTA AAGAATCAAA GGTGAATACG GGCATGGTTT  
5301 CTGCCCTGAG GGAGCTCAGG AGATACGTGG AAGAGGTAGG CAGGCAAAAA  
5351 ATAATTATAT CATAGAGATA AGTGCTTAAG AGGGATGGCT AATGCACAGA  
5401 GCAAAACCCA GCTGTCATTG GATTGAGGGA GGTAACAAAA GCTTCCAGGA  
5451 GGAGAAAATC TGAGCACCTT TCTCTGCCTT CATTTTCAAG CCCTTATTTT  
5501 AAATATCTCT TGTATTGATT AGGTCTCTTT TGGTTGTAAG AAAACCCAGT  
5551 TCATAGCAAA GACGGGAATT GATTGGCTCA TAAGTGACCA AAAGAGCCTC  
5601 TAATAAGTAG TGTGGCTGCA GATTGGCTT CTTCTGGGGG TTCCACTCTT  
5651 TTTTTTTTTT TTTGAGACGG AGTCTGGCTC TGTACCCAG GTTGGAGTGT  
5701 AGTGGCGCGG CTCACTGCAG CCTCCACCTC CTAGGTTCAG GCAATTCTCC  
5751 CGTCTCAGCC TCCCAAGTAG CTGGGACTAC AGGCCTGTAC CACCATGCCC  
5801 GACTGATTTT TGTATTTTCA GTAAAGATGT GGTTTTGCCA TGTGGCCAG  
5851 GCTGGTCTCA AACTCCTGCC CTCAGATGAT CTGCCCACCT TGGCCTCCCA  
5901 AAGTGCTGGG ATTACAGGCA TGAGCCACTG CGCCTGGCCT CGGTTCCTCT  
5951 CTTTAGGTAG GCAGTGTGTC CACTGGGAGA CTTCCACATC TTCCAAGTCT  
6001 CAGAGGGAAA GAATACTCAT CTCGCAGTCA CTGTGGCCCG AGTCCCAGGA  
6051 TTGGCTCTGA ATGCTTCTGG GTCACATGCC TTTCCCCAGA AATGGACTGG  
6101 AGTCAGCGCA CCCAAACCAT ATGGACTGAG AGTGGATGGT AATGGGTGGT  
6151 AATCAGGCAA GAAATAAAGG TCATGGTGTG TCTTTTGTAG CCCTGCTAAA  
6201 AAGAGAGATG TTTTGTCTT TGAAAACCTT TAGATGCAGA TCATCACCAA  
6251 TGGTGTTTTT GGGGAGATGA TGTCTTGAGT AGAGGAAGGA GTACACTGGG

FIGURE 3, page 2 of 33

6301	ATGAAGACCT	TGAAGTTACA	GAAGTATCAA	GGAGAAAAAA	AATTTGAGAG
6351	ACAAC TAGGA	GAGCATAGTA	CCGAGGCTCT	GATAGGGAGT	GTCTCCTTGG
6401	GTGTTGATTT	CTTCCCTGAC	TGAAGTTTCC	CTTGGAGGTC	TGAATGCCTT
6451	CACAGATAGT	TGTTTTTTGA	GAACCCAAGG	TTGTAAACCC	AAATGCCTAG
6501	AGGGCGAAGG	CAGTAAAATG	AATCAGTGCT	TTGGGCCATG	TGAAGGCCTC
6551	AGGGGACCTG	GAGGACTGTG	TCCCACCAAA	GGGGCTGCTG	TGGTAATGTA
6601	GGCCCAGTGT	GGACCACCTG	TGGAGTTTTC	CTGAAATCTG	CATTTTAACT
6651	AGCTGGCGTT	TAATCCAAAT	TAAACTACGG	GGACACTATA	TGCAGCTGAA
6701	CAAAATATTT	CTGTGGATCA	CCCAACTGCT	TGTCTAGAAG	GACTCAGAAA
6751	TTGACAGTCC	CTCTTTTTC	TTTATTCCCC	TGTACCTTAC	CCTGATGTTT
6801	TCAGTTCTTT	GGATTTGTG	AAAAACAGCT	CATCCTTTCT	TTACTAAAA
6851	CTTGAAAAGG	TCTGATAGTA	ACAGTCTATA	ACATTTCTAT	GGTGGTTTAG
6901	TTTACAAAGT	GCTGTACTAA	ACCACCTGGC	TTGGATTTTC	TCTCCTGACA
6951	ATGATAACTT	CTCTCTGACA	AAGATGGAAA	CCTGGCTGGG	TGGGGTGGGG
7001	TGGCTCACGC	CTGTAATCCT	GACACTTTGA	GAGCCCAGAG	TAGGAGGATC
7051	ACTTGAACCC	AGGAATTTCA	GACCAGCCTG	AGCAACATGG	TGAAACCCGG
7101	TCTTTACAAA	AAATACAGAA	AACTAGCCAG	GAGTGGTGGT	GTTTGCCTGT
7151	CTCAGCTGCT	TGGGAGGCTG	AGGTGGGAGG	ATCAACTGAG	CCTGGAAAGT
7201	CGAGCTGCA	GTGAGCTGAG	ATCATGCCAC	TGCACCTCCAG	TCTGGGTGAC
7251	AGAGCAAGAC	CCTGTCTCAA	AAAAAAAAG	AAAAAAAAGA	GGAAGAAACC
7301	TGACTTTCTA	AGTTTGCACA	GTTACTGAGT	AGTGGCTGAG	GCATGGCTTG
7351	GGTCCAGGGC	CTCTTCTCTG	GGTTCCCAAG	TGCTTTTGAG	TACAGGAACT
7401	GGGCTGCCTC	TTCACCAGGG	AAGGATTAGT	GTTTATTAAT	GTTTATTAAA
7451	CATCTTCTGT	GCTTATGAAG	CTGCTGGGCT	TGGTGCTTTG	CATACTTTTA
7501	TTTCATTGCA	TTCTCATAGC	CACCCTCTGA	GGTGATGTTA	CTTATTTCTG
7551	ATTTAATGAT	GAGGAAGCCA	GAGATCAAAG	AGGTCATCAA	GCTCGCAAGA
7601	GACAGAGCCG	TGGACCCAAA	CCCAGGTTTC	TGATTCTGCA	GCAGCTATAA
7651	ATTCTGATCA	CAGAGATCTA	ATGACCTCTA	GGAGTCTTCC	ACTCCTAGGA
7701	GGTATGTAGA	ATGGACCACT	CACTAGGTAG	TTGGATCCAC	TACCAGCAAT
7751	GTGAATTCTC	ACACTGAGTC	AAAATGTGTC	TCTACCTACT	GATCCCAGAA
7801	CAGTCCCCCTG	CTGCCGAATT	GAATGAATCT	CATCTCTCTT	CCCTGAGTCA
7851	GCCTGCCTCG	TATTTGATGA	TCACAAACCT	TATCCTTACG	TTGCCAGCAG
7901	TAACATTCTG	CATCCCTCAC	CCACTCCACT	GTGTCCTTTT	CCTCCCACTG
7951	ATCTTCACTC	TACCTTTTCT	TCCCCCACC	CTTTTTTTTT	TTTTTTTGAC
8001	GGAGTCTCGC	TCTGCCGCCC	AGACTGGAGT	GCAGTGGTAC	AATCTCGACT
8051	CACTGCAACC	TCCACCTCCT	GGGTTCAGC	GATTCCTCCT	CCTCAGCCTC
8101	CCGAGTAGCT	GGGCTTACAG	GCATGAGCCA	CCAAGCCTGG	CTAATTTTTG
8151	TATTTTTTAG	TAGAGATGGA	GTTTTGCCAT	GTTGGCCAGG	CTGGTCTTGA
8201	ACCCCTGACC	TCAGGTGATC	CACCCACCTT	GGCCTCCCAA	AGTGCTGGGG
8251	TTACAGGCGT	GAGCCACCAC	GCCTGCCCAC	TCTGCCTTTT	CTAGGGGAAC
8301	TCTGAACAGT	ATTTCTGAGA	AGGGATAGGT	AATGTGTGCT	TTGCTTCAAT
8351	CTGAGTGGAT	TCCATCAACC	TCTCCATAGA	GCAGGGTGGA	AAGAGGTCCT
8401	CTTGTCGTTG	CAGCAGCTTC	TCAATCTCAT	CTTTTATGGC	CTTATTATGT
8451	AGTTTACATG	TTAAGAAATC	CAGAAGTATT	TATAGTTGAG	TGAAAATCCA
8501	TTCTTTACTG	GGGGGAAAAA	ATGAACTCTA	AAACCATAAA	AATGATGAAC
8551	CAGTAGAAAA	TTTTTCATCTG	TAAATTTGAA	CCATAAAAGG	ATATGTTTAT
8601	TTAGCATCAT	TTTTTATATGT	GTAAGCGGCA	TGTTACGCTA	TTATGGAATT
8651	GCCTTTGTAG	CAGAGTGGAC	GAGGCAAAAC	CTTCCAAGTT	TGATTATGGC
8701	CTAGGGCGCT	GCAGTCAGTA	CGTGCACCGT	GCATTTTGTG	CAGACCACAG
8751	GATGTTTCAC	CTTTATCATT	CTATTTTCACT	TTCTCAAGTG	TAGGTAGATG
8801	CTGTAGTAAC	TAGTGAAGTA	CAAATCCATG	TAAAAATGTT	AAACTCTCAT
8851	CTGTTGCTG	TGTTTGTATT	TTCTTAAAGG	TAGGGATTAA	AAGTGTAATA
8901	GGCCACAGT	CCCTTATCTG	GAATCATTTG	GCCAGATAAG	TTTTAGAATT
8951	CAGAAATTTT	CAGATTTTTC	TAAAAGTAAT	AATATGCATA	TATTGTTGTT
9001	ATGTAATACT	TCCAGTGGGG	TCTGGGACAA	AATCCCATAA	TCAAACATTA
9051	GTATAGCAAA	ATATATATAC	ATATATTCCC	ACTGAATGGA	TATGCATGAA
9101	GATTATGCAT	AGTTTAATAT	CAGTTCAGGT	CAACTTTTAT	TGCCAAATAA
9151	GTTACAAAAA	AAGATTTGTT	TTTTTAAAGT	TTTTTGGATTA	CAAAATGGTG
9201	ATAGGGATTG	TGGACTTGTC	TTACTTTTAT	TTATATACCT	ATTGAGAGTC
9251	TGTTAAATTT	TTTTACTGTA	AATAATATTT	CCCATATTCC	CAAAGGTTGG
9301	AAACCACAAT	CACATAAGCA	GGGGTCACAA	ACCGAAGTGC	CAGGTTGGGT
9351	AAAATAAATA	AGTGAAATGG	GAGGCGGGTA	TAGGACAGTA	GGGAATGTGG
9401	GGACTGCAGT	GAAGTGGTGA	ATACATGTTC	ATTCAAAGGG	GAGAGCTGCT

FIGURE 3, page 3 of 33

9451 CTTCAAGTTCT AGCCACTTGT TGCCATGGTG AACGTGGGAG TAGTGAAGCT  
9501 ACATCTTCCA TTTTGTATGA TACTCCAGAA TGCTGATTTT CATGTGAAGT  
9551 TTCTTGATAT TTAAATGTTG GCAACTAAAA AGAAAAAAC CCACTGTTGG  
9601 CCAAAGAAAA CATCTGAAAG CATTATCTGG CTGTGGGCTG CCTGCTTTCA  
9651 TTTGTAGTTT AGAGACTAAT GCTTGTGGTA TGAAAAGTTG TCAGTGAGCC  
9701 GGGTGCAGTG GCCCATGCTT GTAATCTCAG CATTTTGGGA GGCTGAGGTG  
9751 GGAGGATCAC TTGAGACCAG GAGTTTGAGA CCAGCCTGAG CAACATAGCA  
9801 AGATCCTGTC TCTACACACG CAAAAAGTTT AGCCAGGCAT GGTAGCATGT  
9851 GCATGTAGTC CCCAGCTACT TGGGAGGCTC AGGTGGGAGG ATCGCTTGAG  
9901 CCTGGGAGGT CGAGGCTGCA GTGAACTGTG ATCCTGCCAC CGTGCTCCAG  
9951 CCTGGGTGAT GGAGTGAGAC CCTGTCTCTA AATAAGTAAT TTGTCAGTGG  
10001 CATTTCGTAT GAACTACTTT CTTGAGATAT GGATGGGTGC ATTTGCTTTA  
10051 TTGTTATTCA TTATGCTTTA CATAACACT ATATGTTCTT TGCACATAAA  
10101 ATATTTTATA ATAAAAATCT AAAGAAGTTG ATAAGCACTT TATTTTAGCA  
10151 TTGCCTTATT TTCTAGCCAT TAGGAAATTT TCATCTGTAA ATTTGAAACT  
10201 TTAAACTTAT TTATCTTGGA AAAGGGACTG AAAGCCCCAC TTCAAAAATA  
10251 GGAGCCCTCT TTTTAAAAAG TAGGAGTTAA AAGAGGTTAG ATTGTAATGT  
10301 TCATTCTTTT CCAGGGCCAT AGTGATCTGA AGTAACATTG GGTATTTCACT  
10351 GTTATATTGC GACAGAGAAA TGTCTTCGAT CTCCTTTCTT CTCAGACCGT  
10401 TCCCTGGGT GATCTCAGCC CCATAACTAT CACCTCATGG TGACAGTTTT  
10451 ATGCCCTCCAG CCCTGGGGTC TCTTTATCCC TAGAATGATG CTATCATCTC  
10501 TCTCTTGAAA AATCTCTGCT GACATGGCCT GATAAAATTG AACCCATGAA  
10551 CTTCTTCCTC AAATTGGCTT CATTTCCTC TATCTTCTAG TCTGTGAGTC  
10601 ACGAGACTTT GGCCTGCAGG GTAAATCCAG CCCACCGCTT GCTTTGTGAA  
10651 AAAGTTTACT GGAACACAGC CACTCACTAC AGTGGCAGGG TTGAATAGTT  
10701 GCAACAGTGA CCCATATGGC CTGCAACGCC TATGGTATTT ATCCTCTGGC  
10751 ACTTCATAAG AAGCATGTGA CCCCTGCCCT AGGGCATTAA ATGCCCTCAC  
10801 ACCCTCCCTA GTCACCTGTC AGTCCCATTC TTTTTCCTCC ATCATCTCAG  
10851 TCAGGTGAGG AGACTGGAAG TTCTGCCTCT TTGATTATCT TTTTCTTTTT  
10901 TTTTTTTTTT TTGAGACGGA GTCCCTCTCT GTCACCTAGT CTGGAGTGCA  
10951 GTGGCATGAT CTCGGCTCAC TGCAACCTCT GTCTCCCGG TTCAAGCGAT  
11001 TCTCTGTCT CAGCCTCCTG AGTAGCTGGG ACTACAGGCG CACACCACCA  
11051 TGTCGGGCTA ATTTTTTTTT TTTTTTAATT TTTAGTAGAG ACGGAGTTTC  
11101 ACCATGTTGG CCAGGCTGGT CTGGAAGTGA CCTTGATTAT CTGTTGACTT  
11151 CATCTTTGCT TCCAGAGGC CATCCTTCCT GTTACCTTAA TTAGGTGCTC  
11201 ATTATTTTTT ACTTGAGTC AAATTTGTCT TCCAGTTGGC TTTGCTGCCT  
11251 TGAGCTGGCT TGAGCTGGAT TGTATCTACA ATTCCCCAAC CTTCTGTTTG  
11301 ACATGGTCGG TGACCATTTT AATGATTATA GCTGCTCACC TCTAAATTAC  
11351 TTTTTCATGA TGAATTCTCT AGAGGTTAGA ATCACTAGAT TTATAGGAAA  
11401 TTAATGTTTA TATCATGACA GTATTGCCAG GTTGTCTCCT AAGATGATAA  
11451 TGCGTCATT TAGTTTGTAG TGCAGAAAGT GATGTTGCGC AATAATGTGT  
11501 GTCATTATGC ATGACATGAT GAATATCACA TTTACCATC ACCTTAGTTG  
11551 CATTAGATAT TGTCCTTAAA AAATTTGTTA TCTATTTAAA TTTTTCCAC  
11601 TAAGTTCAAA ATGAATGTGT TCTTACATT GTATTTCTTT ATATGAGTTT  
11651 TCTCTGTATG TGTCATTTGT TTGTCATGGA ATTAACGTT AGTTATCAGT  
11701 TTCATTGCTC AGTTACCAAT TTAGTTCAAC AAATGTCTCT TGAGAACCTG  
11751 TCAAATGATA GGGGCTGGGG TTAATAATAT AATTGATCCC TGGGGACTTG  
11801 AATGTGGAGA CAGAGCTACA AACAGATAAT CTGAATGTAA CCAGTTTTAT  
11851 CTATTCTAGC AGATCTTAGG TGCTGTAAAT GAAATCTTAA TGCCATTCTT  
11901 TGATGTATTT ATGTACTTTA ATATAACAA GTTAGCATTC TTGTTCATAG  
11951 ATATGTTTCT CAACAGATAC AGTGATGAAA CCTTGACAT TCATGACTAG  
12001 GTACAGATTT AATACAAGTT TCAGAAGATA AAGCTGATTC TATAAAAAAT  
12051 CTAAGATTTT TATAAGAAAC TGTCTTTTAA ATAGGTAGAG CCTATTATTT  
12101 ATAGCAAATA AAATAATAGG CATGTTTGAT ATAAAAACAA TATTCAAGCT  
12151 GGGTATGGTG GCTCACGCCT GTAATCCCAG CACTTTGGGA GGCCAAGGCG  
12201 GGTGGATCTC CTGAGGTCAC GAGTTTGAGA CCAGCCTGAC CAATATGGTA  
12251 AAACCCATC TACTACTAAA ATACGAAAAT TAGCTGGGCA TGGCAGGCAG  
12301 GCGCCTGTAA TACCCAGGTA CTCAGGAGGC TGAGGCAGGA GAATGGCTTG  
12351 GACCCAGGAG GCCGAGGTTG CAGTGAGCCA AGATCGCACC ACTGCACTCC  
12401 AGCCTGGGCA ACAGAGTGAG ACTCCATCTC AAAAACAAAC AATATTCAGT  
12451 TCATTTCAGC CATGCATCTT GTGAGACTGT GTTTCCTCTG TGTTAATTAC  
12501 AGCTTATTGA TTATTTGCAT TGGCTACTTC CTTTTGATTA TCCCAGATG  
12551 TTTCTCTCTT CCTCTCCTTT CCCACAGCTC TTCTTTTTTG ACGTCTTCCT

FIGURE 3, page 4 of 33

12601 TATCAGAGAT ACCTTTTGGT TTAGTAGTCA ATTTGATCTC TCCTTTAATG  
12651 TTTCATTAGC ATTTCTTCTG TAGTTACTCA GTGTTCTTCC ACATGGTTTG  
12701 GCCAAATTTA TACTTCTTAA AGAGTTTAAA TTAGAAATCA CAGACCAAGT  
12751 AAACAGGTGC TCAAATGAAT ATAAATCTTA AATAAATGTA CAGAAATTAT  
12801 TAAAAGCACC CATCAGCTGT TACCTGTCAG TGTGAATATG TATAAATCAA  
12851 GCAGCTTGGG TATCACGTGG TCATTGGATA CTTTCACATG CCTGGGCTGG  
12901 AGTGACCATT TGAAACCATG GCCAGCGGTA CTTTGGGGAA ATACACCGAA  
12951 GTGTTTCTAC TTCACCAGAT ACAGTGAGTG CTTGGATGGA GGGAGTGTGG  
13001 GCACAGGCAC AAAGCAGGGG AGTCTCTGAG ATGTGCCTGG GGGTTCAGTG  
13051 AGGACTCCGC TGGGCATGTA ACGTGAGCAA TCATTTTAA ACAAAATTTT  
13101 TCATGGAGGC AGAGTCTTGC TATGTTGCCC AGGCTGGTCT CCAACTCCTG  
13151 GCCTCAAACA ACTCTCCAT CTTGGCCTCC CAAAGTTGTG GGATTACAGA  
13201 CGTGAGCCAC TGTGCCTGCG CTTGAGTGAT CTTAATAACT GGCAGGTGAT  
13251 AGAGAATTCC AAGGGTAGAG ATAGTCCTAG GGGAAACCTA ACACTTGAAG  
13301 AGTTTATCCT TTAACCTAAT ATTTTCTTCT TGTGTTGAAA TTGGGAAAAA  
13351 GGCAACCATT ATGTGATTCT TAGCAGGGGA GCAACTCTCT CCAGCTCTTC  
13401 TATTTTCAA TCACCTGGGT AGTGATTGCT ATTTTCTGAT CCATTTGTTA  
13451 AGTATTTGTA GTATTTAAAT TCACAGCCCC TGGTTGCATT TCCATCCAAT  
13501 AGAAGGTGTA AGTTGGTTCT TCAAAGCTTT TTTTCTTTT GAGATGGATT  
13551 CTTGCTCTGT CACCCAGGGT GGAGTGCAAT AGCACAGTCT CAGCTCACTG  
13601 CAACCTCTGC TCCAAGGTTT AAGCGATTCT ACCTGCCTCA GCCTCCTGAG  
13651 TAGCTGGGAT TACAGGTGTG CACTACCACT CCCGGCTAAT TTTTGTATTT  
13701 TTAGTAGAGA CAGGGTTTCA CCATGTTGGC CAGGCTGATC TGGAACTCCT  
13751 GGCTCAAGC AATCAGCCCT CCTCGGCTC CCAAAGTGCT GGGATTACAG  
13801 GTGTGAGCCA CCGCACCCAG CTGGTTCTTC CAAGTTTAA AAAGCTTTAA  
13851 GGCCAGGCAT GGTGGCTCAT GGCTATACTC CCAGCACTTT GGGAGGCTGA  
13901 GGCAGGCAGA TTTGATGCCA GGCCAACACG GCGAAATCCT GTTCTACTA  
13951 AAAATGCCAA AATTAGCCAG GCATTGTGGT GCACACCTGT AATCCCAGCT  
14001 ACTTGGGAGG CTGAGGCACG AGAATCGCTT GAACCTGGGA AGCAGAGGTT  
14051 GCAATGAGCT GAGATCCTGC CACTGCAATC CAGCCTGGGC AACAGAGTGA  
14101 GACCTGTCT CAAAAA AAAAAGCTTAA AGCTAGCATA  
14151 CTCTTGT TTTTGGCTG TATAAGCTGA TGGAGACCTT TGCCCCAAAT  
14201 AGACAATTTT GTTATACATT GAATATCAAG TATCATTTCT CACAATGTAA  
14251 CTTATTATTT TCTCTAATTT CCATTTTACT TGTATATCTC CTGTTAGAGC  
14301 CTCTTTTTTT TTTTTTTTTT TTTTGTAGAC GGAGTCTCGC TCTGTTCCCC  
14351 AGGCTGGAGT GCAGTGGCAT AATCTCGGCT CACTGCAACC TCCGTCTCCT  
14401 GGGTTCAAGC GATTCTCCTG CTTACGCTC CCGAGTAGCT GGGATTACAG  
14451 TTGCCACCA CCACACCTGG CTAATTTTGT TATTTTGTAG AGAGAGGGAG  
14501 TTTTACCATA TTGGTCAGGC TGGTCTCAA CTCCTGACCT CATGTGATCC  
14551 ACCTGCCTTG GCCTCCCAGA GTGCTGGGAT TACAGGCGTG AGCCATCGCG  
14601 CCCAGCCAGA ACCAGTTTAA TACTCCCAT GCTTTTGCAT TTTTGTACTT  
14651 GCTGGGGTTC ATAATAATCC TCAAACAACC CCAACATAGC AGGACTAAAA  
14701 TACAGGCCAT CCATGGCCTG GAGCACCAAC TTTTGAAGC CAGGCGATGT  
14751 TGATTGGCTT CTGTCGTCAT CTGTGGAAGT CCATCGTTAG AAAAGCTTCT  
14801 GTTCCAGTTT TAGGGGGGAA TGATGGTTTG AGGGCTACTG TGGTAGAACT  
14851 TGGGGAACCTC TTTTCGGCAA AAGGTTGAGA AAGTTGGTGC TGTGGGAAGT  
14901 CAGCTGGCAG CCGATGGAGT CAGGACCAGG GAGGAAGGGA AAGGGAACCC  
14951 AGATAGGAAG CTAATGCAGT AGGCTCAGAG AGGTGATGAC GGCAGGGCTA  
15001 AGACAGCAGC CTTGGGCGGT GACTGGGAAG AACATTGAAC ACCATGTTTG  
15051 GGCTGAAGAA AAGAGCAAGG GAAGAGGTGA GGAGCTTACG GTTAGGGTTG  
15101 ATGTAGATGT TATTTACATA GGGAACAGTA ATTCTTCACT TTTTCATTGT  
15151 TTTACAATGA TTCTTTTTTA GAAACATATA ATTGTGATAT TTTCTTTGAC  
15201 CTTTTATTGG GCTTTCTATT CTATTCCATT GATTTATGGC TTTGGGTGTG  
15251 TGTATATGTT TGATCAACA TTTTTTTTTT TTTTAGATGG AGTCTCGCTC  
15301 TGTCACCCAG GCTGGAGTGC AGTGGTGCGA TCTTGGTTCA CTGCAACCTC  
15351 TGTCTCCAG GTTTAAGCAA TTCTCCTGCC TCAGCTCCC CAGTAGCTGG  
15401 GATTATAGGT GCCCACCACC ATGCCCGGCT AATTTTGTGA TTTTGTAGT  
15451 AGACAGGGTT TCGCTTTGGT CAGATTGGTC TTGAACCTC GACCTCAGGT  
15501 GATCCTCCTA CCTTGGTCTC CCAAAGTGCT GGGATTGCAG GCATGAGCCA  
15551 CTGCACCTAG CCTGCATCAG TATGGTTTAA TAACTGTTGA TCTGTAATAT  
15601 GTTTTAAATT GGGTAGAGCT GGTCTCTTAC AAATACTCT TTTTCAGGCTG  
15651 GGTGTTGTGGC TCACGCCTGT AATCCCCAGC ACTTTGGAAG GCTGAGGCCG  
15701 GAGGATCGCT TGAGGCCAGG AGTTCAAGGC TGCAGTGAGC TGTGGTCTCTG

FIGURE 3, page 5 of 33

15751 CCACTGCACT CCAGCAAGAG ACCCTGTCTC ATTAAAAAAT AATAATAAAT  
15801 ATTCTTTTTT CAGTATCTCT CTTACTTTTG TATAAAGGCG AGTTTTGGCA  
15851 TCTCATCTTC TCTAGTTTCT AGAAAAAATT ATTTAGGATT TTGATTGAGT  
15901 TGGGACTCAT TTATCCAAAT GATGTTTATT GGGTCCCTGT TGTGGGCTAG  
15951 GCTCTAAAGG TTCAAAAAATA AATAAAACCC AGGTTTTTAT GGCTAATAAA  
16001 ATCTGTGAAC TAAACTTTGA GAATTGATAT CTACAAGATG AGCATTGCAC  
16051 ATGACTTTGT GTGTACAATC TTTTATATGC TTCCCAGGTA TTTTTTTTTG  
16101 TTTTTTAAAT TGAGAATAGT GCCTATTTAC TAAACTATGC AACTGATCAT  
16151 TTTTGTATT TTAGGTACAT AATATTATCA GTGTGTGCT TCTATTTCTG  
16201 CTTTGTCTAT TTAGTTCAAT GATTTCTTTT TCATCCCTTA TTTAATTGGT  
16251 TAGACTCCAA AATAGTGTGT AGCTGTATAA ATGTTTATAG GAATATTGTG  
16301 TAAAGGGCAT ATGATTCTAC CTTTATTGGA CATTTCAGGA ACATGATAAG  
16351 GACTATTTAA ATCCTGCTAA AATACAAGTG TTGTAATATG AATTGTTCCC  
16401 AATGGAAGTT TGCAAGCAAC GTTCTCCTCA TTTTCGAACC ACACAACCTT  
16451 TAGTGTGTCT GCTATTTGAG CTTTATTCTG TGTCTGTTTT GTGTCATGAG  
16501 GTTGGCAGGT GATCTTAAAT GCAGAAATGCT GAATTTGTAG TAGTCCAAC  
16551 ATATGGAGAA AACAATTGCA ATGCACTTTA GATTTAGGAA CAAATTGGAG  
16601 GAGAAAGTTG AGAAATGGTA AGAGGAGTTT TAATGGAGCG TATGTGGCAG  
16651 TATGCTAATG TCACCTCTAA AGAAGAGGTG GTTAGCAGGT CACAAGGCAG  
16701 TAGACTGAAT TGTAGCCTCT GAATCTCAGG GCAGTCTTTA GGAATGGAAA  
16751 CCTTGCTGCC TGTAGATTTA GGTAGAGGTT TTAATAACCC CCCCCTTGCC  
16801 AGAAAAAATC ATCCACACAC AGATTTGCCT ATAATCTTAT GGACTTCACA  
16851 GACATCCTCA AGCGCATGGA CAAAAACCCC AAGATTCAAG AAAAGCCGTC  
16901 CACATGGTCG GCAGCTCAAG AAAGCCTGCC AGTTGTCCAA GCAATGCTTA  
16951 GTTACAGTTT CCATGCTGGG AGCTGCTCTC TAGAGAAATG TTATTTGCAG  
17001 ATGTGCACCT CGTGCGTCTG TGTGTGTTGT TCTGCCGTGTG TCCAAAATAC  
17051 ATGCTTTTTT TAGATGGGAG CCTTTCCCCC ACAAAGCAGA AATGTGTTCT  
17101 GTCATGGGAT TTGATGATCA TCAAATTACT TTCCCTCAAG AATTGGCTTT  
17151 CTTGGCGATT AGTTAATTCA GTTTTCAAAA CTTTGTAGATA AGGGCTTAAT  
17201 CAACGTAAAA CTGCTTTGGG GCAGTTGCAT TGTAATAAAA AGTGATTGG  
17251 ACTTGAGTCT GAGGCTTTGA GATCCTGTCT GACTGTGTTA CTCGCTGTGT  
17301 CTGTGACCTT GTTCCAATCA GCCACTCTGC TGTGTTCCCTA TACGTGAGAA  
17351 ACGGCTCCTG ATACCACCAG GAGCAAGCTC TGCTGTGTTT AAGAAGGTGG  
17401 TGTGTGCTAG GGAGGCGTCA TGAGACAGTG AGGACATACA GTGTGACACA  
17451 GCAGTTCAGC ACTGGGGAAG ATAGCCAGGT TAGCCTTCAC TTCACTGCTC  
17501 TATGCCAAAA TACATTCCAA ATGGGTTAAA GCTTTCATGT AAAAAATAAA  
17551 ACCACAAAAT AAATACAAGA AAATATAGCT TATTGTGGAA AGTACTGCAT  
17601 GCTTTGGCAT AAAAATGTGG AGAAAGAACA ATAAAAGATA GCCTGTAGGT  
17651 GGGACATGCG ATCCACACCT GTATCCCAGT TGTTAGGGAG GCGAGGCAGG  
17701 AGGGTCATTT GAGGCCAGGA GTTTGAGCCC AGCCTGATTA ACATAGTGAG  
17751 GCCGTGTCT GTAAAAGGAA TTTTGGAAAA ATTAGCTGGG TGAGGTGGCA  
17801 CACCCTGTGA GTCCCAGCTA TTTCAGGAGG CTGAGATAGA AGAATCCTTA  
17851 GAGCCAGGA GCCCGAGCTG CAGTGAGTCA TGATTGTGCC CCTGCAGTCC  
17901 AGCCTGGGTG ACAGAGTGAA ACCCATCTC TAAAAAATAA ATAAATAAAT  
17951 AAATAAATAA ATAAAACACC TGTAATTTA ACCACATAAT AACTACACTT  
18001 CTGTCTGTTT TATTATATCA AAGTTAAAT TAAAACGATG ACTAATTGGA  
18051 AAAAAGTGAG AGCAACCACT ACAGAGGTGA ATATACTGAA TGTATAAGC  
18101 TCTCTAGTAA TTTTAAGAAC TCCGCTCTAA TGAGCAGATA TCACAGACAG  
18151 AAACCTCTCA GATGAAATAC CGATGACCAG GAAATCTGTG AGACCACTTT  
18201 AAAAATTCG AAGTCATTGA AGAAATGCAA AGCTTCCAGG CTCCACTTTT  
18251 CACTGATGAA ATTGGCAGAG TTTGGGACAA TGAGATGTTG CTGTCCCGGG  
18301 AGTGTGGATG GGGCTGTGTC CTGTGATGGC GGTGGGCACT GGCACCTTG  
18351 TCCAGAAAGA CATTCGCCAC TGTGGTTCAA GAAGCACCTC AAAGGTCTTC  
18401 ACCTTGTGCC CTTGTCCACC TCTGCCCGCG GTCTCTCCTC CTTTACGCCT  
18451 CCTCTTTCCC ACACAGTCCC TCCCGCCCTG GCTTGGTCCC CTTTCTTCTC  
18501 TGATGGGGTC AGGCATGTGG GTGACTGACT TCCAAGGCTC TGTCTACCTG  
18551 GCCTTTTTCT TTACCTGTT CTGCGGAATA ATAGCCTGAT TCATTCTCT  
18601 TTTTGGGTCC TTCCTTTCCA TACCTGGGAT TCGGGGCGTG GCCCAAAAAG  
18651 ACCCTGCAGT CGTGCAGTGT GGGGCTGCCA GCATTTTCATG GCCTCCAAGC  
18701 TCAGTGGGTC TGAATGAATG CTGCCGTCCA GCGCTTGGCT TAGTTTTCTG  
18751 TCCCCTTTTC CTGAGTGCTT TTGCCAGACT TTCCTTTTC TGAAACCTAC  
18801 TTCACCTTAC CCCAGAACAC CCACCCTCTC TCCTTGGATG ACCTGCCTCC  
18851 TAATTTCCCTA AGAAAAGTGG ACATGGCCAC CTTTCCCCAG TGTCTGAGGC

FIGURE 3, page 6 of 33

18901	CCAGGTTGAC	CCGTGGTCAT	GGTTGCCGTC	ACCACCCACC	TGCCTGGACC
18951	CCACCCTCTG	TCCAAGGCC	CGCCACCTGT	GCCGCTGTCC	TGGGCGCTGC
19001	CTTGCCAGCC	TCCCCTCTGT	GCCATGCACC	TTTACCTCC	CTCCATCTGC
19051	TGCCTGTTTC	TTCTTGGCTG	CTCCTCATGG	TCAGGCTTTT	CTCAGCCCTC
19101	CCCTTCCTTC	TGGGGCTTTG	CGTCTTCCTC	TGTATCCAC	GCTCTGCGTC
19151	TTGGCTTCCC	AGGACCTCT	CCTCCCACTT	TCCTGTCCCT	GACGTCCCTG
19201	TGCCCCGGGG	CCAGTTTGCA	TCATCAGCCA	GTCCCTCATC	CATGCTTCAC
19251	CCGCACCTCG	CTCCTGGCTT	CTTCCCTGCC	CTCCCTGGGG	ACTCCTATCC
19301	TGTCCCTGCG	CCTGGTTCTC	CTTCCGCTGT	GTCCAGGGC	CTCCATCCTC
19351	AGCCTCCGTC	TTCTCTGCAG	GGTCTGCTTC	TGCATGAACT	CCCCCAGATC
19401	CGTGTTCGTC	GCTGGTCCTC	ACAGCAGGCT	CTTCGTTTCT	GGACCAGATG
19451	TCTTTTCTTC	GCTTCAGAAC	CATCTAGAAA	AAAGGGAAC	GGATATCTCC
19501	ACCTGAATGT	TCAACAGGTC	CCTTCACCCA	GCATTTCCAG	AGCTGACCTC
19551	ATTGTACCTT	CATATCCTCC	CAGTGTTCCT	CTTTTGGTGA	GGAAAAACAC
19601	ACATTGTCCA	GCCAGTCCCT	CAAGGCAGAA	ACCTGGTGGT	CATCCTCAGC
19651	TCTTCCCCCT	CACCTCCTGT	CCACCCCAA	GTACCCGAGT	CCTGTTCCCTT
19701	TCTCCTTTGC	AGTGGCTCTC	TGTGCCCTGC	TCTACCTACC	CACTATTTAG
19751	TGTGGGCTGT	CCTCCATCTC	ACTTGGATCT	CGTGTTCG	GGACTCTTCA
19801	GATTCCTCCT	CATGGCTTCC	CTACCCGGCA	GCATATCTTT	CCCTCACATA
19851	TTCCACACTG	CAGCCAGAGG	GATCTGCCAA	AGAAATAATT	GTGATAATGA
19901	TAGAGAATGC	GCATCTGGGT	GTATACTGGG	TGCCTTGCAC	TAGTCCAAGT
19951	GCTAATGACA	GAGAATATAT	ATCTGGGTGT	GTACTGGGTG	CCTTGCACCA
20001	GTCCAAGTGC	TAATGACAGA	ATATGTGTCC	GGGTGTGTAC	TGGGCGCCTT
20051	GCACCACTCC	AAGTGCTAAT	GATAGAGAAT	ATGAGTCTGG	GTGTGTACTG
20101	GGCGCCTTGG	ACCAGTCCAG	GTGATAATGA	TAGAGAATGT	GCATCTGGGT
20151	GTGTACTGGG	CACCTTGCAC	CAGTCCATGT	GCTAATGACA	GAGAATATGT
20201	GTCTGGGTGT	GTACTGGGCG	CCTTGCACCA	GTCCAAGTGC	TAATGACAGA
20251	GAATATGCAT	CTGGATGTGT	ACTGGGCACC	TTGCGTAGT	CCAAGTTGTG
20301	TATTGACTTG	TTTAATACCC	ACCAGACCCT	GTGAAGTCAG	TATAGTGTTA
20351	TCCCTTTTAT	AGGTGGGAAC	CAGAAGCACA	GGGAGATTGA	GTAACCTGTG
20401	TGACATGATT	TCTCCATATT	CTAGACAGAA	CAAAAACCAT	TTTTTTTTTT
20451	TTGGTTGTCC	CTATGTTGCC	CAGGCTTGTG	TCCAACCTCT	GGCCTCAAGC
20501	AATCCTCCTG	CCTCGGCCTT	CCAAAGTACT	GGGATTACAG	GTGTGAGCCA
20551	CCATGCCAGG	AATTTTTTGA	GCTTTCTAGG	AATCAGCACT	TTGCTTATAT
20601	TATCTCTTTC	AATCTTTCCA	ATCTGTAAAT	TAGATATTCT	TAATATCTCC
20651	ATTTTTACGG	GAAAGGAAAT	GGAGACACAG	AGATTACCCC	GCTCTTAGGT
20701	GGTGAACGGG	GCTTTGACTC	CCTGCATATT	TGCTCTTAGC	CACTTCACCC
20751	ACCTACAAGG	AGTAGCACC	TTGCTTGGGG	TAGAGGGAGG	GCACCTTCTG
20801	AACATGCTTT	AGTGGGTGTT	TTTCTGTTCT	GCTTTCCGAG	TTGTGGGTGG
20851	CAAAGGAGAT	GTGCATGCAT	AAGATGTTCT	CATTACTAAG	AGTGCTTCTG
20901	ATGATAACAA	AAGACCAATA	TCCTGTTGGA	GCAATGTCCA	GATATGATGA
20951	AATGCTAGAT	TTCGCTGGTA	ACGCTGAAGA	AATTTTTTTA	TGAATGCTCC
21001	ATCCCCAGAA	GACTCTCGCT	CCTGCCATTT	GATCAGTTGA	TTTTATAATA
21051	TGAGCATTGG	TAAATTCTTA	GGAATACAAC	TATCATAATA	ACATGTTATG
21101	GCACAACAAA	TTTAACGTGT	ACTCCACTGG	TAGGTTCCCTG	AAATTATTGA
21151	TGATAGGAAG	ATTCTTCAGT	GCAGAGAGGG	ATTTAAGACG	TTATGGGAGA
21201	CATTTTAGTT	AAGATGGTTG	ACTGAAGACA	TATTTATTTC	CCTCCCCCCC
21251	CAAAAAAATA	AAATTCACCTG	AAATGTTGGG	AATTTTTTTT	AAGTCTTAGA
21301	AGTTAAAAAC	CATTGTGCTG	AAATCCCTGG	TGTACTTATG	AAGAAGTAGG
21351	TGGCTTGCAC	CTGTAGTCCC	AGATACTGGA	GAGGTTGAGG	CGGGAGGATT
21401	GCTTGAGCCC	AAGAGTTTGA	AGTGAACCTG	GACCACATAG	CAAAGCCCTT
21451	GGTCTCTTAA	AAAAAAGAGA	AGAAAAAGTT	GGTCTATAGA	GAAGTAAAGT
21501	GAGTGCAGTT	TTATTTGTTG	GTTCAATTGTC	CAAGCCTGGT	TTTCCTTTGT
21551	TTAAATGCAT	GTAACAGCCT	TTCTGAAGAT	TTTTTTTTTT	ACATTGCTG
21601	CCTGGTACTC	ATTTGAAGGC	CCAGAGTCCG	GCAGAGTTCC	TTTCCGTGTT
21651	TTCCGCAGTC	CTTCAGTTTG	GTTGCGACAC	CTGATGGCCT	AGAAATGGGC
21701	TGGCCCTTGG	CTTCCTGCC	CACCCTGGTG	GTGGATTGCC	GCTGGCTCCT
21751	ACTCAGTACA	AGGCCAGAT	ACTGAAAAC	TTTCAATTAGT	CACTTATGTA
21801	TTCAGCAAAT	AAGTTTGCTC	ACAATCTTCA	GCAGATCCCG	TGTACCTGAG
21851	CTTAAATGGG	GTGGGGTTCT	CCCCCAGCCA	TGTCACCTGC	CTCTGCTCCT
21901	CCCTGCTCTC	TCTTCCCTCT	CTTCTCCCTG	ACCTGGGTGC	TCTTGCTACTA
21951	TCCAGCCTCT	GGGTTTCCAA	CTCATCCAGT	AGGTCTCAGA	AGCCATCACC
22001	AGTTTCAGGA	TATCTTTCTG	ATATCCCAGG	TCTGCATTCA	GGCCCTCCT

FIGURE 3, page 7 of 33

22051	GTCATGTCTG	TAACCCGCAA	CAATTTAATG	TGCTTCTCTG	TGCCTAGGTT
22101	TCTAAATCTC	TAAAATGGGT	ATGACATGGT	TTGGCTGTGT	CCCCACTCAA
22151	ATCTCATCTT	GAATTGTAGT	TCCCATAATC	CCCACGTGTC	GTGGAAGGGA
22201	TCCCATGGGA	GGTAATTTAA	TTATCGGGCC	ATTACCCTTA	TGCTGTTCTA
22251	GTAATACTGA	GTGAGTTCTC	ATGAGATCTC	ATGGTTTTAT	AAGTGACTTT
22301	TCCCCCTTTT	GCTCGGCATT	TCTCCTTGCT	GATGCCATTT	GAAGAAGGAC
22351	GTGTTTGCTT	CCCCTTCCAC	CATGATTGTA	AGTTTCCTGA	GGCCTCCCCA
22401	GCCCTGCGGA	ACTGAGTCAA	TTAAATCTCT	TTCTTTTGTA	AATTACAGAG
22451	ACGTGGGTAT	GTCTTTATTA	GCAATGTGAG	AACAGACTAA	TACAGGTTAT
22501	AATAGTGGTA	TCAGTCTCAT	GGTTGTCTTG	AGGATTAGGT	GGGTTAATAC
22551	AAGTAAGATG	TGTATTAGGT	GGTTAAGAAC	AGGGTCCCTG	AAGTAATATT
22601	GCCGAGATTG	AGAGCCTAGG	TGGGAAACCC	TGGGCAATCG	CTTAAGTTCC
22651	CTGGGTGCAT	CAGTTTCTTC	CTCTGTAACA	CGGGGGTAAT	AATACTTATC
22701	CCGTAGAGTT	CAGTTCTTGC	AAAGCACCTG	GAACAGTGCT	GAGCATGTGA
22751	TATGAGCTCA	ATAAATGTGG	GCTGTGGTGA	TAGTGACAAC	TCCCAGGGAC
22801	CCTGCACTTC	CCTGTTGGAA	CCGTCCCTTG	ACTGGAGTAT	AATGGCTTAT
22851	TTTCCTTGAT	AGTCCTTGAG	CTCTGGCAGA	GCAGGGGCCC	TATCTTACTC
22901	ATGATGGCTC	ATGGAAGGGA	ACCCGAAAAT	ATTTGTTTCT	TGACTAACCA
22951	AATGAAAAGT	TAGTGCAAAG	TATGCATGAC	ACCAGCCTGT	GGTTGAATTT
23001	GTTGATGGGC	TGTGTAGCTC	CACTCAGTTA	AGGCTTACTT	ATCCTGAATA
23051	GCTTTTTTGA	CAAAACACCT	CATTAAAAAG	CAATCAGATT	TCTGTTTTAA
23101	GGTATTTACA	GTGTCCTTTC	ATCCATCAGG	CACTCCTTTC	TTTGACCTTA
23151	GAAAAGGGCA	AGTGGAGATT	TAGGGTGTTC	CCCACCCAGA	ATCTACCATC
23201	ATCCCTCAAA	AACTGCCCTG	CCCTGACTTT	CCAGGTGACT	ATTTTTTCTT
23251	CATTTTGTGC	ACCACGCTAA	GCATGGAACT	TCCTGGGCCA	CATCTGTGAC
23301	GTGTGTTTAT	TGTAGAATTC	CAGAGGAGCC	ACCATTATTC	AGATTTTCAG
23351	CACTAGATGC	CTGTTTAAAC	CGTGCAACAT	TTGTCATTTT	TGGAGTTACA
23401	GTCCTACGTT	TGCAAAGCCC	AGTTTGGAAG	GTTTCAAAAT	GTTCCCTCCT
23451	TTGCTATTTT	GTTCTAGTCT	CTTAAAAGTC	CTGTGAGAAT	GTTGATGCAA
23501	ATATAAATAA	AGTAAGGGGC	AGAAAGGTTA	AGGGATGTAT	TTTTAGATGC
23551	TATGGTTAGT	TTGTGGCGGA	GTTAGGGTCA	GAACATAGCT	TGCAAATTTA
23601	AGAGAAATTT	AACTTTGGTC	CATGGCCTCG	AAGGTACTCT	TTCTGAAGGT
23651	TCAAAGACTG	GTTACATTTG	TGTAATTCAC	TTAATGGGTG	TCTGCCTGCA
23701	CACCCACGAA	ACAGGGATAA	TAAAAATTGC	CCTGTATGGG	TACATGTTTT
23751	TGCCCCGTAC	TTTTTTTTTT	TTTTTTTTGAG	ACAGAGTCTC	ACTCTATTGC
23801	CCATGCTGGA	GTGCAGTGGT	GCAATCTCAG	CTCACTGCAA	CCTTCGCCTC
23851	CTGGGTTCAA	GTGATTCTCC	TCCCTCAGCC	TCCTGAGTAG	CTGAGATTAC
23901	AGGTGCCTAC	CACCATGCCC	AGCTAATTTT	TTTTTGTATT	TTAGTAGAAA
23951	TGGGGTTTCA	CCATGTTGGT	CAGGCTGGTT	TTGAACACCT	GACCTTAGGT
24001	GATCCGCCCA	CCTCGGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA
24051	CCATGCCCGG	CTGCCCATTA	CTTTTAATGG	GAAAAGCCAC	AATTACTTTT
24101	GCACCAACCT	ATTATAATGA	AATAATATAG	GTAAAAGTGC	TTTCATAACA
24151	GAAAATAATG	TATAAATGCA	AAATATTACT	ATTAATTTTT	TTTTAAATTT
24201	TAGTATTGGA	AATTTGGTGT	TAAGAAACTC	TTTTGGCTGG	GCACAGTGCC
24251	TCATGCCTAC	AATGCCAGCA	CGTTAAGATT	TTAGACCTTG	TCTCCAAAAA
24301	AAGGATTTTA	ACTGAGGCAG	GAGGATCACT	TGCGGCGAGG	AGTTTGAAAC
24351	CAGTGTGGAC	AACATAGCGA	GAACCTGTCT	GTACAAAAAA	ATACAAAAAT
24401	TAGATGAGTG	TGGTGGTGTA	TGCCTGTAGT	CTCAGCTACT	TGGGAGGCTG
24451	AGACAGGAGG	ATTGCTGAGC	CCAGGAGTTG	GAGGCTAAAA	TAAGTTACGA
24501	TCGCACCATT	GCTTTCACAC	GTCTGGGTGA	CAGACCCCAT	CTCTAAAAAA
24551	TAAATAAACG	GTAACAGAAA	CTTTTTTGAT	TACATGTTAT	GATCCACCAA
24601	TTCCAGTTTC	TATGTTTGAT	TACTTTCTTG	AACAGGAGTA	CTGTATTTAT
24651	GAATTTTTCT	TGTACTTTTT	TCAAGTTGGT	AGTTTATAGT	CAGATTCTAC
24701	TGTACTCTTT	CTGTTAAAAAT	AGCTATGTGT	TGGGCCAGGC	ACGGTGGCTC
24751	ACGCCTGTAA	TCCCAACACT	TTGGGAGGCC	GAGGTGGGCG	GATCATGAGG
24801	TCAGGAGATC	GAGACCATCC	TGGCCAACAT	GGTGAAACCC	CATCTCTACT
24851	AAAAATACAA	AAATTAGCCG	GTCATGGTGG	CGTGCGCCTG	TAGTCCCAGC
24901	TACTCGGGAG	GATGAGGCAC	AAGAATCTCT	TGAACCTGGG	AGGTGGAGGT
24951	TGCACTGAGT	CAAGATTGTG	CCACTGCACT	CCAGCCTGGT	GACAGAGCAA
25001	GACTCTGTCT	CCAAAAAATA	GAAAAAGAAA	AAGAAAAAAT	AGCTATGTGT
25051	CATTGGCCAG	GATGACTATT	TGGGCTCTGG	GTCTGTGTTC	TTGTCTCTCG
25101	TCTAGATATC	CACAGAGGGC	TCCAGGAGTT	CCTACTTCCA	TCCTGCTATT
25151	CTACTTTTCA	TTCTGAAACT	CAAACCTGTT	GCCATTCCAT	TACTGAAAAA

FIGURE 3, page 8 of 33

25201 CCATCAGTGG CTCCCTGTTG CCCCCGAGTT CCATGGCAGG CAAAGCCTTT  
25251 CTCTGCAGCC ACATCTCCAC CTCCTGTCT GTACCCTACT AAGTACACAC  
25301 TCCTCCCCAA ACCTTTTCTC CCCATGCCTG ACTTATCTGA GGTCCACTTG  
25351 GACTGTTTCC CTGCTTTCCT GGCCACACAG TTAATCACTC TTCTATCTGT  
25401 GCCCCCAAAG TGTTTTTCATT AAGGATGAGA CCTTTTTTTC TCATGAGCTC  
25451 CTCGAAGGGTG GGGACTGTAT CATTTCTGTC TCCTTTTTTC TTTCTCAGTT  
25501 CCTGACATTT AGTGGGAAC CCGTAAATAC CGTCTGAATG AACAAATATC  
25551 TAAATCTGA GGCTCTTGAA GTAAGTCCAT CCTCGGATGG ATGGTTTATA  
25601 CTTGGAGACT TGCTTTTGCT TCTCTGTGAA TGCATGCTCA GCTGAGATCT  
25651 GCTGGTGCAG GTGTTTCTAT AGCTTCCTTA GCAGTGGTGG GAAGCCCAGC  
25701 AGCTTAAGAT GTTAGCTTCT GATGCAGGGT TTAATACTC TCCACGTACT  
25751 CTGTCCCTGA GTTTCTGTTT ATTGTTTGCC TGTGATTCTC TTTGGTGCCA  
25801 TCCCACACGG TGTTGTACACA ACCAACCCTT TGTTTAAATT GAACGTCCTG  
25851 CGCTACTCCT GCTCTAACTC TGACTAGCTT TTTGTTTTTG TGTGGTCCAG  
25901 GCTCGACTGT GACTTCTTCC AGAGAGAAGC TAGAACAGCT TGATAAATTT  
25951 GGAAGGTCAT TTCTTAGATA AGACTTGGA TTTATCTGAA GGTGTTATT  
26001 ATTTGTTGTA ATTCTCAGAA CAGCTAACAC TCCATGAACC CTCACTAGGT  
26051 GCCACGAAAC ACGTTAAATG AAGTACATGA GATGGTGTTT CTAAACAACC  
26101 ACTATGGTGG TGGTATCATT ATTATAATTT TATGGTTATA ATTATTCCTA  
26151 TTTCACAGTG GAGGAAATGT TTCTTAGTAA GGTGCACATG TGAACGTCTA  
26201 GCCTTGGGTT TCAAAGTCTG GTATGTTTGA CTCCAGAGCC CTAACCTTTA  
26251 GTTCTGACTG TATCCTACAT TCTTATCCTT TGCTGAGAGT GAAACTTAGA  
26301 ATTGGGTATC ACTCTGTTTT TTACAACCTGA GTTTACTCTG TCTGTGAAGG  
26351 CCGCAGCGTA AAGCCAGTTG TGAATCATGC ACATCAGCTC CTTCTGAAAT  
26401 GTGTTTATGG CCTAGGACAC AGGGACCCTG GAGACTATGG TGCTGCAGTG  
26451 CATATGGCT GCTACCCCTC TAGTCTGTCC TGCTGCTCGT TCTGCCACCT  
26501 GCCAGCTGTT GCTACCTGAA CCTTCTCCTT GCAGCAGTTC TCAGTGTTCT  
26551 CTTTGCTTGG GAATTGCCTG GGGAGCTAAA AAAAAAAAAA AAAAAGCCAA  
26601 GCCCCACCTC CAGAGGTTCT AATTCATTG TTTTAGGTTG GGGTCCAGGC  
26651 ATCAGTATTA TTATTTTTGA CAACCTTATG AGGGGTGTGT GTGTATTTGT  
26701 GTTTTTGTGT GGGACATGGT CTCACTCTGT TGCCCAGGCT GGAGTGCAGT  
26751 GGTGTGATCT TGGCTCACTG CAGTCTCCAC TTCCCAGGCT CAAATGACCC  
26801 TCCTACCTAA GCTTCCTAAG TAGCTGGACT ACAAGTGCTC ACCACCATGC  
26851 CCAGCTAATT GTTTTAAATTT TTTTTTTTTT TGAGACAAGA TCTTGCTTTG  
26901 ATGCCCAGAC TGGAGTGCAG TGGCACGATC GTGGCTCACT GAAGTCTTGA  
26951 CCTCCTGGGC TCAAACAATC CTCCCACCTC AACCTTCTGA GTAGCTGGGA  
27001 CTACAGGTGT GCACCACCAT GCCTGGCTAA GTTTTTTATT TTTTGTATAG  
27051 ATGGAGGTGT CCCTGTCTTG CCCAGGCTGG TCTTGAATC CTGGACTCAG  
27101 GTGATTCTCC CACTTTGGCC TCCCAGAGTG CCGGGATTAC AGGCATGAGC  
27151 CACTGTGCCC AACCTATGAG ATATATTTTA TAGATCATAA AATTTACCCA  
27201 TTTTCCCCTT TTATCTTTAG TTGGCTGCAA TGTTTGTACA TATTATGGG  
27251 ATATAGAGTG ATATTCTGAT ATGTTTACAA TGTGTAATGA TCAAATCAGC  
27301 ATAATTATCG TATCCATCAC CTTGAACGTT TGTGCCGTGA TTGTGAACAT  
27351 TCAAAATCCT CTCTAGATT TTTGAAATA CACACTAAGT TATTGTTAGT  
27401 CATATTCACC CTACAGTGCT ATAGAATACT AGAACTTATT CCTCCCATCT  
27451 AGCTATAATT ATTTATCCCT ATCCATTAAC CTCTCCCTAT CTCTCCTCCA  
27501 CCCTATGCTT CCCAGCCTCT AATAACCACA ATTCTACTCT CTACTTTTAT  
27551 GACGTTATTT TTTTGGCTC CCACATATGA ATGAGAACAT GTGGTATATA  
27601 TCTTCTGTG TCTGACATAT TTCAAAAAAT GTCTCATTTT AAGTGTAGAA  
27651 CTCAATGATT TGAGTAAAT TTACAGAGTT GTGTAACCAT CACCACAACC  
27701 CAATTGTAGA ACATTTTTGT CACCCCAAAT GAGAGCCTTC ATACTTCTTT  
27751 ACAGTTAATC CCCATTCCCC CCACCCCAA AGCCAACCAC TCATCTACTT  
27801 TCTGCCTCTA TAGATTCCCG TTTTCTGGCC ATTTTCATATA AGTGGCATCA  
27851 CCTGTATTAT TTTAGAGGCC TCCAGGACTG TCATGTGTAG CTCTGGTTAA  
27901 GAACCACTGT TACCTCCTAG ATCTTTTTTC ACTAGTTTTT ATTTTACTA  
27951 TTTTCTGAG TGGCTCAGAA AACTCAATAG GCCCCTGCCA GGGCTGTCTC  
28001 TTAGATAATC TGTAGCTAA ATGAGTCCTT GTAAGTTGGA CTGAGAAGTT  
28051 AACATTTACA ACCTGTTTTT ATGGGGATGA GCTTGTCAAA GTCCAAATGT  
28101 GCTGACCTAG TTTGGAAGGG AGCCTGCACA ACCTGTCTTC AGACGCTGTG  
28151 CACCTCCCCA GCAGCCATCA GTCACAGCAC TGAGTCAGAG CCCAGGTGTG  
28201 GAGGGAGCCC CTGACATTGT GTGGCCTGGC CTTGGGCACT TTTGCTTTAG  
28251 ACTTTTTGTG TGGCTTTTCA GCTCCTCCTA GCCTCTGGCT GCCTCACCAG  
28301 AGCAGTAAAC TGGACTCCTC CTGAGCTCCT TTCCCTTAGG CAGTAGCTCT

FIGURE 3, page 9 of 33



28351	ATGTGGATGT	ACTGTCTGCA	TTGCAATATT	TTGCAAAATA	TTTCTCACAT
28401	ATTTTTGCCT	GCTTAAATGA	GTTTTAAAAT	CTCAAACCTCA	GCTGCCTCCA
28451	GGTCCAAGCA	GGTACCATGA	GTGACTGGAG	CAGGCTGGGG	AATAAGGCAC
28501	TTGGAATGCC	TGAGAGGCCG	TTGAGGTGGT	TGGTGGCAGA	AGGGAGATTT
28551	CTTTCAGATT	TTGCTATAAG	CAAGAATCGG	TGGTGGAGCT	TTGAGACAGG
28601	CCACGTGGTT	AGAGCAGGGA	TAGCAAATAG	ATTCCATTTT	ATGTGCCAGA
28651	GGGGAAAAAG	CCAACTGACC	GAACAAAACG	CTGCGTGGGT	AAGCTTACAT
28701	GTGCAGGAAA	ACGATAAACC	TCAATTCAAT	TTAGGGTAAA	ATGTAACGT
28751	TCATCTTAGT	CACTGGAATT	CAAATAATAT	TATCAAGATT	AAGTTAAGAT
28801	TGAGAAGGCT	TTTATTGTCA	TTTAAAGTAA	AAATTAAATG	TTATAACCTT
28851	GTCTTAGAGA	AGCTGTAAAT	ACATGGGCAA	AATACCATCA	TTTGGGGAAA
28901	TAATGCAGAG	TATAGAACTA	TTAGATCTAT	TTTTCCACG	TCATTGCCAA
28951	AATATTTTCT	GTTGAATCAT	TTCCCCCGT	TAAGTATCCT	TTTTCTTTTC
29001	AGTGTTAGGC	ATGGGAACAA	TTTTTTCCCA	ATAACATCCC	TTTAGAGTTC
29051	TGTAAACTCT	CTTACGGCTT	TTAAACTGCT	TTGTGGCAGG	TATAACAAAT
29101	TGCTTCATTT	TTAAAGTTTC	AGAGAGTCGT	TTATTTTAAA	AATCCAATTA
29151	AGTAGATTTT	AGATTCCTTC	CCAGAAATCT	AAGACGACAG	CTAATCTAAT
29201	GAGATAAAAC	AGTAAAAACT	CATTCACTAG	TCCTCCAGCT	CACTATGAAA
29251	TCAAACATATT	GCATCCAAAC	TGGGCTCAGA	GGCTCAGGTG	GATTTTGTA
29301	ACACTTGTA	CGGGAGGTGA	CAGTGTTCGA	CAAAATCAGA	TTCCCAGCAG
29351	AATGAAATCC	ACTGCCTAGC	CCTGGGTGGG	CTCTGTAATT	TCCTGTGAA
29401	TACAAATCAT	GTTGCATGCA	GTAATGTTTA	TGTTGTTACC	CTACATACAA
29451	TATTCAGATC	CTTGCTAGAT	TAGTCACAGT	CTGTCTTATT	TCTCAAAAAT
29501	GCGTCAGATA	TTTCCTGGTA	ACTAGCATTG	AAAATGAGCT	CATTAAAAAT
29551	TCTCTCCATT	CTTCATTTT	TCATTTTAAT	TGACGTATCA	GTGAGTGTGC
29601	AAGTGTAATA	GCCAGCAGAA	CAGTGATCTC	TCATGTGAAA	TTGTAAACCA
29651	AAAACCAACA	GCCCTGTGAG	CCCAGAGGCA	GTGGGAGCCA	TTGATGTTTG
29701	ATGCTAGTGT	TGGCGCCTCG	GCCACATATT	TGCCATCCTT	GGGTTGGGGG
29751	TGCTCTTGGT	GGTAGAAAGA	TGAGCCCCTG	CTCTCAAGGC	CCCAGAATGG
29801	CTGAAAGGAT	TGAAAAGGAG	CAATTTGGCA	AAAGTCTTGA	AAAGCCAGCG
29851	TCTCTCAACC	TCTGAAATGC	AAGTTGGGAA	AACGTAGAAA	TCCCCCTTCT
29901	GAGTAAGAAG	AATTTGGATT	TGGGAAGTGA	TTAAAAAGGA	TTGAAGTTTC
29951	ATGGGAAAAT	GGACTTCACT	TGTACATAGA	TCAGGGGTCA	GCAAACCTCTG
30001	GTCTGTGGGC	TAAATGCGGC	TGCTGCAGGC	TCAGAAATGGT	TTTGGCATT
30051	TTAAATACTT	GAAGACATTA	AAAGAGGAAC	AGTAGTTCAT	GACGTACGAT
30101	AATTAGGCAA	AATTCACATT	TCAGTGTCCA	TAAATAAAGG	TTTATTGGGG
30151	CACAGCCAGG	TCCGTTCACT	TATACAATGT	CTGTGGCAGC	TTTTGTGCTG
30201	CAGTGGCAAG	CTGAGTCATT	ACATAGAGAC	AGTATGGTCT	GCAAGCCTGA
30251	AATGTTTATT	GTTGCTGAAC	TCTTGGGTAG	AGAACTGTGT	TTATTTAGGT
30301	CTTGTCCCGA	AATATGTTTA	TCAGTAGAGA	CCAGAAAGCA	AACAGTGATT
30351	AAAATACTTC	AGTGTTTTTG	AGGAGGTGAG	TGGATGGAGG	TGCGTAGGTG
30401	CAGGAGGGAC	ATAACTTCTG	ATTTCTTCCT	GTCACCAGTG	TCACCAGCAC
30451	TGGGCTGTGC	CTCCGCATTT	GGACTGAATT	ATCAGAGGCA	GCCACCCCTG
30501	TTCATTTTGG	CAGCTGCTGC	TTGCCTATGA	GGCAGAATGT	CGAGGAAGAG
30551	AAAATACACC	TCCAGCCCAG	CCTCACCCAT	CCTCAAAGTG	ATTCTAAAAA
30601	GTTAGCTATC	AAGGTTTGCA	CCACATCCTG	CAAGAGTTAC	TAATAGAGAC
30651	CTGGGGTTGG	CCAGCATTTT	CTGTAAATGG	CTGGATAACA	AATATTTTGA
30701	GCTCTGCAGG	TCATACGGTG	ATGTCTTTCG	CAACAACCTCA	GTTCTGCTGT
30751	TGAAGCTCAA	AAGCAGCCAT	AGATAGCACA	CAAATGCATG	AGCCTGGCTG
30801	TGTTCCAGTG	AAACTTCTGT	AATACACTGA	AATGTGAATT	TCATAAAATT
30851	TTCATGTGTT	ACCAAATATT	ATTATTTTGT	TTTTTTCCAA	TCATTTTAAA
30901	ATAACCATT	TTCTGAGCTT	TCTGAACATA	AAAAATGGGC	GGTGAGCTAG
30951	ATTGAGCCTG	CGGGTATAGT	TTGCTGACCC	CTGGTTTAGA	TAAACTAAGT
31001	GTAGGCCCTG	CTAGTCAGGC	CCTCTGGGTT	TGAATCCCAC	AATCCCACTT
31051	ATTAGTGCTG	GGGTCCTAGG	CAAGTTACCT	TTCAAGACCT	CACCTTCTCT
31101	ATAGGTAAAA	TGGGGGAAAT	AGTGGTTTCT	ACCCAATAGG	GTTGATGTGA
31151	GAATTAGAGT	AGATGTAAGT	GCCAGCCCAG	TGTCTGGGGC	ATAGAAAGCA
31201	CCCAGCAAAT	ATGGCTGCTA	CTGTTGGGTA	TTATGAAGGC	TCAAGTAGAT
31251	CCCTACAGCC	TTGGAGGAAC	CGTTTGTGAT	GTGGAGGTTT	GACGGTCTTC
31301	AACTGCTTTC	AGTCCACAGT	TCAATTAGAT	TGAATATGAG	GCTGGAGGGT
31351	TTGGTGGTGC	TGCCTTGCTT	TCGTGCAGTT	AAGTAGAACA	TGGTATATCC
31401	ACAGAATAGG	TTAATGTACA	GGCATAAAAA	GGGAGGTGGT	GGAGTTGTAC
31451	ATCTGTATT	TGACGTGTAA	AAATGCCCTT	CGTGTCTCTA	TCTACCTGTG

FIGURE 3, page 10 of 33

31501	TGCATCTGTG	TGTGTGTGTA	TGGGTGTGCA	TGTATGTGTG	TGTACGTATG
31551	TGTGTGTATG	TGTGTCCTTT	GAAATCAGCA	CTTCTCAGCC	TTGGCACTGT
31601	TGACATTTGG	ACCTGAAGTA	GGCAGAATAA	TGCTCTGCCC	TCCCAGAAACA
31651	TGTCCAGATC	CCCATCTCCA	GAATCTCTGA	ATGTCTTAGA	TTACATGGCA
31701	GAGGGGAGC	AAGTTTGGAG	ATGGGATTAA	AATTTCTAAT	CAGTGGAAAG
31751	GGAGATTAGC	CTGGACTAGC	CAGGTGGGCC	CAGTGTAATC	ACAGAGGTCC
31801	TTAGCAGTGG	AAGAGGGAGG	TCGCAGAGTC	AGAGGAAGAG	GTGACTGTGG
31851	CAGAGAGGCC	CAGAGTGAAC	CATACTGGCT	TTGACAGTGC	AGGAGGAGGC
31901	CAAGGAATGC	GGTAGACTCA	AGAAGCTGGA	AAGGGCGAGG	AAGCAGATGC
31951	TCCCCTTGCA	TGTCCAGGAA	GGCATTACAG	CCTGCTGCCA	CCTTGATCGT
32001	AGTCCAGGGA	GACCTGGTTG	GAAGTGCTGA	ACTCAAGAAG	TGTGATATAA
32051	TATACTTGTG	TTGTTCAAGC	CAGTGAAGTT	GTGGTGATTT	GTTACAGCAG
32101	CAATAGGAAA	CAAATCCAGG	GCTGGATCAT	TCCTTGTTCA	TAATTCTTTA
32151	TATTATTTAG	TGTGTGTGTG	TGTGTGTGGG	GTTGCATTTA	GGATAGTCAG
32201	TAGCATCCTG	GCCTCTAGCC	TACAGAGACC	AGTAGCATCT	CCCATCATGA
32251	CAACCACAAA	TGTCCCCAGA	CATTGCCAAA	TGTCTCTGGG	GGACACAGTT
32301	GCCTCCAGTT	GAGAAGCACT	AGTTTAAATT	TAGAAAACAA	ATTGGGAAGG
32351	ATATATAACA	AATTCGTAAC	AGTACCCTTT	GGGATATGGG	ATTGGAGGAA
32401	TGGCTTTTAC	TCCTCTTTTA	ACATAAAATT	TTTAAACTCG	GATTTTGCCCT
32451	CCCCCTACAG	ACATTTTTTTT	TTTATTTTCA	ACTGTGGTTT	TTTTTCCCAT
32501	TTTATAAAAA	GATTAACCTT	GAAAGGTAAT	ATCACATTTT	AATTTTAGTC
32551	ATTATGGATT	TTACTGTGGA	AGGCAGTTCT	ATACACCTAT	GGCTGCTTTT
32601	CAACCTAGTT	TTATTGGATT	TTGTTTGACA	TTGTGAATGT	CCTTTTTCCC
32651	AAAGATGTGA	TAGACATCCA	TTCATTCACT	CAGTGTGTAT	TTCTTTTTTT
32701	TTTTTGAGAC	GGAGTCTTGC	TCTGTGCGCC	AGGCTGGAGT	GCAGTGGCGC
32751	AATTTCAATC	TCAGCTCACT	GCAAACTCCG	CCTCCCGGGA	TCACACCATT
32801	CTCCTGCCTC	AGCCTCCCGA	GTAGCTGGGA	CTACAGGTGC	CTGCCACTGC
32851	CTGGCTAATT	TTTTTTTTGT	ATTTTTAGTA	GAGACGGGGT	TTCACCGTGG
32901	TCTCGATCTC	CTGACCTCGT	GATCCGCTCG	CCTTGGCTTC	CCAAACTGCT
32951	GGGATTACAG	GCGTGAGCCA	CTGCGCCCGG	CCTCAGTATG	TATTTAAGTG
33001	GCAGGAAGGT	GCTGAGCTTG	CCGCTGGGGA	GGAGTGATGA	CTTTAGAGCT
33051	CTCTCTCTGC	CCTCATGGAA	CCTGCTGTCT	AGCAGGGAGG	AGGACGGTAG
33101	TGCTCATTGT	TTGGAAGACC	ACAGCCTGCA	TTGATCGCGG	GGACTTGAGC
33151	ATTCGTGTCC	ATGGTTTGGG	AGTCCCTGGC	TCCCATAGTA	CATGTTTTAT
33201	GAAGGAAACT	ACCAGAAATC	CATGATTAGA	GATGGAATAA	ATCAGACCAA
33251	TTGGAAATTT	TCCTTTGACT	CTCACCTGGT	CTGAGCATCT	TCTGTCTTTT
33301	TGGTACAGTG	AACTACTCCA	GATTGAAAAC	ATTTCTGTTT	TCTCCTTGCC
33351	TGGCAAGTGA	GCTCAGTGAA	ACATCCTATT	AGCCACACTG	CAGGGTTGGA
33401	CATTGCCACA	CCAGGTCAAG	GGAAAGTGGC	ACTATGAAGG	CCTGGGCAGC
33451	ACTGCTGCTT	TGAGAATTAC	GAGGAGAAAA	TCTGTGCTTT	ACCAAAAAAGT
33501	AAATTAAAGA	TCCTGCCTGG	TATCAGCCTT	GCTTGAGTGA	CTAGTAAAAT
33551	TGAGAAATAG	CTTCATAGGA	AAAAACAAAC	CCCAGAGTAA	AATGGCGAGT
33601	GGGAAGTTCC	TTCTGATTTC	GTATTGTTTT	TCCAGTTGCA	GACAGGAAAC
33651	ATTCAGTGTG	GTTTTCAAGC	CCAGAACGTT	GGACACAAAG	AAGGCTCTGA
33701	CAAAAGCAGAA	AAAACCCATA	TACAAAAAGT	TTAGGAACAT	GGAGCAAAAT
33751	GTCTGATTCA	AAACAATCTA	GGCTGGGCGC	AGTGGCTCAC	GCCTAGCACT
33801	TTGGGAGTTG	GAGGCGGGAG	GATGGCTTGA	GCTCAGGAGT	TTGAGACCAG
33851	CCTGGGCAAT	GTAGTGAGAA	TCCATCTCTA	TAAAAAAAAT	TTTAAAAAAT
33901	ACCTGGGCAAT	GATGGTGCGC	ATCTCTCGTC	CCAGCTACTT	GGAAGGCTGA
33951	GGTGGGAGGA	TAGCTTGAAC	CTAGGAGTTC	AAGGCTGCTG	TGAGCTGTGA
34001	TCAGGCCACT	GCACCTAGCA	TGGGAGGTAG	AGCAAAACCT	TGTCCTAAAA
34051	AAAAAAAAT	CTGGCCGCGT	ACGGTGGCTC	ATGCCTATAA	TCCCAGCACT
34101	CTGGGAGACC	AAGGCAGCCA	GATCGCTTGA	GCTCAGGAAT	TTGAGACCAG
34151	CCTGGCCAAC	ATGGTGAAAC	CCTGTCTCTA	CTAAAAATAG	AAAAATTAGC
34201	TGAGCGTGGT	GGTGTATGCC	TGTAGTCTCA	GCTACCTGGT	AGGCTGAGGT
34251	GGGAGTATCA	CTAGAGCCCA	AGAAGCAGAG	ATTGCAGTGA	TCTGAGATTG
34301	TGGCACTGCA	CTCCAGCCTG	GGTGACAGAA	CGAGACCCTG	TCTCAAAAAA
34351	AAAAAAAATA	AAAAAAAATA	TATATAAAAA	AAAAAATATA	TATATATATA
34401	TATGATTTAT	CAAGTATTAT	TTTTTATGAT	TGGATCACTT	TGTCTACTGT
34451	TTTTTTTTTT	TCTATAGATG	TCTTGACGAA	TTCAGTCTCT	TGCCCCCTGC
34501	CTTGCTTTAA	TAAATTACAA	AAACTCAACC	AAAGATAACA	CTTCTCAGAA
34551	AAAACCAGCA	CATTTCTGTG	GCCTACGTAC	ATGGCCTATT	GAATGGCCTA
34601	TTGAATGGGC	ACCTTGGCCG	ATAGTGAAT	AATTGCTGGA	CTTCCATAT

FIGURE 3, page 11 of 33

34651	CTCTGGTAAA	GGTGAACACT	GCAAAACAGT	TCACGATAGG	AAGCACCAAG
34701	GCTTGGACCA	GTCACAGTGA	TGAGGGAGAT	CAGGTCATTT	GGACCACATT
34751	ATTGGAATAG	ATGGAGACAG	TACCAAGGCC	TGAAATTAAT	GATGGAGAGT
34801	CCACAGGCCA	GCAAGAATC	TTTGTGTGAG	GGAGCCATTC	CAGTTTGTGT
34851	ATTATACTCC	ATAGTCATGA	TTTGTCACTT	AAAAGTAATT	CTTCCCAATT
34901	ATAGATCACT	TTTAATCTCT	AGTTGGGTTT	GGATTTTTTT	CTACACATTT
34951	TTTTTTTGT	TTTTTGAGAC	AGAGTCTTGC	TCTGTTGCCT	AGTCTGGAGT
35001	GCAGTGGCAC	GATCTTGGCT	CACTGCAACC	TCCGCCTCCC	AGGTTCAAGC
35051	AATTCTCGTG	CCTCAACCTC	CCAGGTAGCT	GGGACTACAG	GTGTGTGGCA
35101	CCACATCTGG	CTAATTTTTG	TATTTTTAGT	AGAGATGAGG	TTTGTCCATG
35151	TTGACCAGGC	TGGTCTTGAA	CTTCTGACCT	CAAGTGATCC	ACCCACCTTG
35201	GCTTCCCAAA	GCTTGGGAT	TATAGGCGTG	AGCCACCACC	CCCAACCTCT
35251	AAAATTGATT	TAAAAAATA	AAATCTAAGC	CTGCAATCT	AAAATTGATT
35301	TTATTAATGT	AATATATATA	TAGCCTCCAC	AAACACAGGA	AACAAAGGGG
35351	AAATTTCTTT	TAAACAGTA	CATTAACATT	TTATATAAT	ATATTCAATA
35401	TAGTTTTCTG	CCTCCAGACC	TTTTCATGTA	AAGTACCTCT	AAAGCAGAGG
35451	GTCCAGTTAA	TTTGAAAAA	ATGGCTGGAA	ATACACTGAT	TTTCTTTACA
35501	TTTTAGATAC	TCTGAGGTAT	GTTTTCTGTT	GTGCATTTGT	AGAGCTTGAC
35551	ATTGGACCAA	TTCTTTAAGT	TAGGCACACT	TCACCCCTGG	CCATATCAAT
35601	CAAGCATGCT	ACTTAAAAGT	GTAAGTAACA	TGCTATTTTT	AAAAAACCTC
35651	AAAAGTGTGA	TTCATGTAGT	TTAAAAAGTC	AAATAATATA	GTAAAAGACT
35701	TACCACAAAA	TACGGTGGGT	TCACTCCCTA	CTCTCTGAGA	TTTCCCAACT
35751	CCAGAAGCAA	CTACTTTGAA	ATATTAACAG	TTTATTGTGA	CATTTATTCA
35801	TATTCATAAT	TATAAGTAAT	ATGTGTAAAC	TATCGTTTGG	GTTATCAAAT
35851	TAGTTACTGT	CTGTTGACTT	TCTGTTCTGA	TAAATGAGGG	TTTAGGGCCC
35901	TTTCCCTCTG	CTTCTGCTCC	CCCCATCCTT	TCAATACAGT	TATAATTTTT
35951	CATTGTATTA	CTATTTGATA	TTTATATTAT	GTCCAATCAA	TTATTTGCAG
36001	CTGAGCATAC	TAGTTACTAT	GACTATCTTT	ATGTTTCCAG	TGGACTTTTT
36051	GTTTTTCTCT	AAGTTAATAC	TTGCCTCGTT	TTTATGTTTG	CTTATTTTTC
36101	TTTGTGGCTG	TTGCAGCACT	GTGCTCATAA	CTGTTTAAAC	ACTGCCAAGC
36151	TCCTATTGTA	ATTGTTTGCA	GTTGTTTATG	TTTTTGATTT	CAAGTACCAG
36201	TGTGAGGTTA	CTGAGCAAGG	AGTTGGGAGA	AGATGCACAT	GGTTGGTTGG
36251	TCTGAGTTGG	CTCTAGCATA	CCTCTGAGCT	ATTACTAACT	TTCCACATC
36301	TGCTTATAGC	CCACATTGGG	ATTGTAGAGC	AAGTTCTTCT	CTTCTTCTGT
36351	TATTTTTTAA	AAAATAATTT	GCTCTGAAAA	AGGACATATT	TGTTCTGATT
36401	CTCAGGTTGA	ATCTCTTTTT	TTGAACTTGT	GAAAATTTTA	ATAGGCCTTG
36451	AGACTTCTCT	GTGTATACTC	GTACTTACAG	AAGGAAGTCA	TTTTAGAGTT
36501	GAGGTGGATT	CTGTGAGAGG	TATACAGGGC	CCTGTCCAGA	TTTGGGGGTT
36551	TTGGCTAGGG	AAGAAAGGCA	AAAGTTACCC	ATTCCCTGGT	GGCATTTTGC
36601	TAAAGGAGGG	ATGAGGCATT	GGCGAGAGGA	ATGGGGGCGT	CTAATGGTGA
36651	AACATGACG	ATCTCATGCC	AGGTGTGTTC	TTGCTAGGCT	GACTGTCAGG
36701	TTTCTTTTTG	AGTCTGGTTC	TTTGACCTCA	TGGTCAGCTG	GGGCCCTGCT
36751	TCCCTTCCCT	AACTGGTATG	ACTACCTGTG	TTTGCTCTT	CAGCAATGCC
36801	TGGCAGCTTG	CCTGCCAAGC	AAGGCTTAGG	GTAGCATATG	TTGGCCTGTT
36851	GCTGGTGGAA	CTTTTTCTA	GAGTTGAAAA	TTGGCTGCCT	CTGGAAGCTG
36901	GGGCCCTTGG	TTTGTCTCTA	GGCCCTGATC	CTCTGGCCCT	GGGAAGTATT
36951	TGAGTCAGGT	CAGCATTCCA	GTTTCCTGCA	GAAACTGGTG	AGTGAGCCAC
37001	CCTGTAGGCA	TCTCCAGGTT	GACTGGGACA	GTGCCATGAT	GACAAGTGTT
37051	AGAATCCCC	ATGGCAATGC	CCTGTTCTGG	CTAACGTGCC	ATTGCCTTAA
37101	GTGTAGACTG	GAGGAGCTGT	GCGCTTCTTT	CCCTTGCCCA	CAGTTGGCAC
37151	TACTCTGAGC	TTAGCAGCAT	TTCGAGGTCA	TTCTAGGGGT	CTCATTTACT
37201	TTCTGGCCCA	AGAGCTTTTT	CTGCTCTTGC	ATTGGTTCCC	GGCCAAGATC
37251	ATACAATCCC	TGTTCTGAAT	TTCCGGTTCA	TTGACAGCCT	TCCCCTGACT
37301	CCCTTCACTG	TTTCAAGCTG	AAACATACTT	TTTCTTTCTC	TTTTAAAAAT
37351	TTCTTTCACG	CCAGGCGCGG	TGGCTCACGC	ATGTAATCCC	AGCACTTTGG
37401	GAGGCCAAGG	TGGGCGGATT	ACTTGAGGTC	AGGAGTTCCG	GACCAGCCTG
37451	GCCAACATGG	CAAAACCTTG	TCTCTTCTAA	AAATACAAAA	ATTAGCTGGG
37501	CGAAGTGCCA	CGTGCCTATA	ATTCCAGCTA	CTCGGGAGGC	TAAGGCACGA
37551	GAATCGCTTG	AATCCGGGAG	GTGGAGGTTG	CAGTGAGCTG	AGATCACACC
37601	ACTGCAGTCC	AGTCTGGGCA	ACAGAATGAG	ACTCTGTCTC	AAATAATAAT
37651	AATAATAATA	ATAAAATAAA	AATTATTATG	GTCTGACAGT	TGAGACTCCG
37701	CCAGCTCGGA	ATGCCCCCTT	CTGATTGCTG	GCCACCGTGT	TGGTTTAATG
37751	GAAGGGTTGA	TGAAATTAGT	AGTAGTTCAA	AGCATAGCAG	AGAAAGTTGT

FIGURE 3, page 12 of 33

37801	GGAAACACTT	AGTTTCTTTT	CAAAGTAAGG	ATGGAGAGGA	AATTTGAAGG
37851	AGGAACATAAT	TGTTATTGTG	TGTGGTGGTC	TAGGCTTGCA	TCTTTGCATA
37901	ACGTTTCTGG	TTGTGAAC TG	AAGTTTAA GC	TTCTGTAGAA	CAGTGTTTTC
37951	TCAAAGCCAT	GTCTCTAGAC	CTCCTGCAAT	GGAATTCTGA	GCAAGGAGTG
38001	GCTGTTAAAA	ATGCAGGGTG	TATTGAATTA	GAATAGAATA	TCCAGAGGGA
38051	CCTGGGAAAT	GGCATTTTAT	ATCAGCACCT	GCTGCCCTTG	GTGATTCTGT
38101	GCCTGCTCAA	ATTTGAGAAC	CACTACTCAG	GATCATTTGT	TCTTGTTTTG
38151	GGCTGCTATT	CCCCACAAAG	TTTTGCTTAG	TTATTTTCT	TTGGTTTTC
38201	TTAAATTGCT	CTCTGATGTA	AAAATTGGTA	AACTGCCCC	GCCAACCTT
38251	CTAAATTTAT	TTCTGCCTGT	TTTGCTTTAA	ACTCCAGGCT	AATAATTATT
38301	AAATTTTAGG	AGTTGCCTTT	CATTTTGGGA	TTTCTAACTC	TGAATTTTAA
38351	ATTTTTCCTA	CAGAGCTGAG	AAAACAGAAG	TCCTTAGTGA	AGATCTATTA
38401	CAGGTAACAA	AATATAGTCT	CCTTTAAATG	ATCTGTTTAA	AGGATGGAAA
38451	AAAATTCCTA	TGTGAGAATT	GAGGCCTGTG	GGCTTTTTTT	TTTTTTTTTT
38501	TTAACCAGAA	ACAGAATAAA	ATTAATTAGT	GTGATTTTGA	GCAGGAAAGA
38551	AAACAGTTTT	GTTGCATGAT	GATGAAAAGG	GGATCTGAAA	CCCAGCTACC
38601	TGGGTTTCGA	TCTCACGTCT	GCGCTGGTTA	GCTTTGTGGC	CTCAGGGATT
38651	TACTGAACTT	CCCTGCGCCT	CAGTTTCCAC	TTCTCTAAAC	TGAGGGAAAAG
38701	GCCTTATCCA	CCTCACAGGT	TGTTAGGAGG	GTTTAATGAG	TTAAGCAGGA
38751	ACAGCACTGG	GAACGGAGCC	TGGCACGTGG	TAAGTGCTAG	ATATTAGTGA
38801	TCTATTATTA	TTACTGCCAC	TGCAAGCCAC	AGAGACTGTC	TGTTTCTGAC
38851	GTGAAACATC	CCTTGATTTG	CCCTGTGTTC	TTCTGCCTTT	TTTTCAGTCT
38901	CTGTTAGAGC	AGTTGTGTGG	CATTTCCCCA	GGGGCTGTG	CATCCCAGCG
38951	GGGCAGAAC	AGCATTTATT	TGCTGTTGAT	TCTTGAATAC	CTTGACAGG
39001	AACTCAGTAG	ACATGGGCCC	TCTCAACGAA	TATTAATGAG	GCACCTTCTG
39051	TTTCTGTGAA	AGATAACGTC	CCAGGCACTG	GGAGAAATCA	GTGAACAAAA
39101	CAGATCCAGG	CTTCTGTCTT	TGTGGAGTTT	ACATTCTAGT	GGAAATTGGA
39151	ATCAAAATTA	AATCATGGAA	TTTGTTTCATT	TTTTGCTTTT	CTCTGGTGGC
39201	AAATGAATGT	GGATTAGTTT	TCTAATGTTT	GAAAATCTGG	TCATTGCAAG
39251	ATTTGGGGAA	GGTAATGTGG	AATCTGCTCC	TAAATCTCCC	ATTGCTGCC
39301	AGCCCTGAGT	CCTGGGGCTG	TGGGCTTGGA	TCTGAAGAAA	CGCTGCCCTT
39351	TTGAGAAAGA	GGCACAGACC	ATCTCGATGC	GTAATATGGT	TTGGGGTCAA
39401	ATGTATTCTG	TTTTGAATTT	GTTGATTTAT	CTTTAAAATA	GAAAGCATCC
39451	CAAAGGGCCT	GCTCTCATTC	TTCATGAGTC	ATCAGAATAC	ACATTTTGG
39501	CATTCCCTTCC	TGTAAAAAGC	GGCTCTCTTT	GCCATAAACA	GCCATATTCT
39551	AGCAATAGTA	TTTTGGGAAG	CTGCTTATGA	TGCGTGGGTC	CCCTAAGTCA
39601	GTGTTTCTTA	TTGCTGACTG	TCCATTCTGC	TTTAGAGGTT	TATTTAAAAC
39651	ACACACACAC	ACACCCAAAA	CCCAATAAGG	AATAATTTTG	AAAACACAGA
39701	TCTTGCAGTT	AAATTGTGGA	ACGTTTATTT	TGCTGCTTCT	GTCTGATGTA
39751	CATTGTGTGG	AAGGCTCAGT	TGCCATGAAC	TGGAGAGAGC	TCCTTGGCAT
39801	CTCTGGTTTT	TCCAGTTGG	CAGTGGGTCT	GGGCCCGGAT	CATTCATTTT
39851	CATTTCTGCC	TGGTCCAACC	TGGTGCTTTT	CTGGTGCTGT	AGTGTGTA
39901	CTGACTGGCG	CCACTCAGTG	TGATAGCAAG	GTGTAGCCAA	GATCATCCCT
39951	TTTCCCTGCA	TGTAGATTCA	GCCATGCTTT	TCCTACCAGC	ATGCAGACAC
40001	CACAAAAGAA	AGAGGATGAA	TTTGTTCTCT	TTTGTCTCTG	CCTTGTGAGA
40051	TTGAGAGACG	CCTGGACACG	GTGCGGTCAA	TATGCCACCA	TTCCCATAG
40101	CGCTTGGTGG	CATGTTTCCA	GGGCCAGCAT	GGCACCGATG	CCGAGAGGAG
40151	ACACGTGAGT	ATCAGATGTG	ACTCAGACCC	ACAGTTCCTG	CGTCTCTCTG
40201	AGGCTTTTCA	ACCCCTGGAT	TGGTTGGTTG	TCCTAAGTGG	CATCAGTGGA
40251	TCAGCCTTTG	GTGACTTCTA	TCACCAAGCA	CGCTCATGAC	ACCTGCGTGA
40301	CCATAGCATT	CTTTTGTGTT	TAAGACATCG	CTGGGCTGGA	AGCCCTCCTT
40351	ACACGGAATC	TTCTCCAGGT	GCTTTTAAAA	GCTCCACGAT	CATGTGTCAT
40401	TGATAAGAGA	ATGGCTGTGT	CGGTTATGCA	TCTTTTGCTG	GCAGAAAGCG
40451	GAAAGCCTGT	CTTAAATTGA	CATTGAAGTA	GAAGTAATGT	ATTGGTTTGC
40501	TAACTGAAAA	GTCCAGAGGT	TGGGATGGAC	TTGAGGTCAG	GGTTTATCTA
40551	ACATTTTCAGT	AATGTAATGA	AAAACCCAGT	TTCTTTCCCT	CTCTCTCCTG
40601	TGCCCTCAGT	GCTGCTTTTG	TCCCTAGACA	GGCATCCTCA	TGATGGCAAG
40651	TTGGCTATTG	GCAGCTTCTA	TGGGCTGCTT	GTTCCCTGAG	TGTGGCCAGT
40701	GGGAGTAGAG	AGCCTCTCTC	CCAGTAGTTC	CCCTCCCTC	CCCTCTCGCC
40751	TCTTTTCTTT	TTTCTTTTTC	TTTTTGCTTC	CCTTCCCTTT	CCCTTTTCCC
40801	CTTTCCTTTC	CCTTCTCTTC	TCTTTCTTTT	CTTTTCTTTC	CTGACAGGGT
40851	CTCACTCCAT	GACCCAGGCT	GTAGTGTGGT	AGTACAGTCA	CAGCTCACTG
40901	CAGCCTCAAA	CTCCTGGGCT	CAAGAGATCC	TCCTGCTTCA	GTCTCCCAAG

FIGURE 3, page 13 of 33

40951	CAGCTGAGAC	CACAGTACAC	ACCACCATGC	CTGGCTAATT	TTTTAAATTT
41001	TTTTGTAGAG	ATGGGGATCT	TGCTTTGTTA	CCTAGGCTGA	TGTAGAACTC
41051	CTGGCCTCAA	GCAGTCCTCC	CACCTGGGCC	TTCCAAAGTG	CTGGAATTAC
41101	AGGCATGAGC	CACCATACTT	GGCCCCAGTA	GTTTTTCTTG	ATGGAGTGAG
41151	AAAGCTGCTT	TTTCCAAGCT	CTTGGCAGAT	TGAAAGCGCG	TTCCATTGCA
41201	TTGATTTGTG	TGGAGTTACA	TTCCCCGTTT	TTGACTGTTT	CTGTTCCACC
41251	CTAGTTACCA	TGGATAGGGG	GTGAGGTGGG	GTGAGGAGAT	GGGATGTGCC
41301	GATTGGTTTA	AGTTAGTTTG	CCCCAGACCT	AGAGCATGGG	CTGTGGTCCT
41351	ACTCCTAGCT	CATAGACTTT	ATCAAGGCCA	GGGTAGATCC	CTGAGAAAAA
41401	TCAGGATACT	AGTATAGAGA	GGAAGAGGGA	TGGACTCTAG	GAGAGCCATC
41451	CGGTGTCTTT	TCCAAGGTCC	ACTTGTTCAG	AGCGTTCAGT	TCCTAGGTAG
41501	AGCCATGGGA	GCACGACAGC	CTTTGTTCAT	GAGGGAGTTC	CATCCTTGCT
41551	TTTACAAGTC	CCACAGCTTAT	GAGCATGCGG	TAAACCTTAG	ACCCCATGCA
41601	ACATTGAAGT	GACAGTTTCG	GTGACACACA	GGGAAGCTAT	GATTTGGTGT
41651	ATTGTCACCA	GGTGTCTCAA	AAGTGAGAAC	TATTAATAGT	ATGCAGATGA
41701	TCTGTGTTAC	CCTTTTATGT	TTCTACAGA	CTTTTATGGG	GCACCCTGGC
41751	AGCAGGGTTT	TTCCACTCTT	GCACAACAGT	GAGGATTCTG	CAATCATGTC
41801	TGTCATAGGA	ATGGAAGTTT	GCATACACCT	ATGCTTCCAC	ACTTGCCTCA
41851	AAGCTCTGTC	CCTCGGAACC	AGACCCAGCC	TACTGGTTCT	GCTTCCTGGA
41901	GCTCCTTGTC	CTTCTGTTGC	CTTCTTCTGC	TCTGCTTACC	CTTTTCACAT
41951	TGTTTCATTA	AGTTCTCTGC	TTCTCTTATT	CTCCAAGTCA	TATTCTCTGG
42001	GCCACCTCCT	CTGTTCTTAT	GGCTTCTAAC	TGATGTGTTT	ATGCCAGTGA
42051	CTTCTAAGCC	ATTTTCAACC	AAGCAAAAAA	CTTCCTCTCT	TAGATGTCTA
42101	TTCTAGCATG	CATGATCAGT	TCTTCTTCT	GTGTTGACTC	TCTGAATTCC
42151	ATCCACCCTT	TTATGCAGGC	TGGAAACTGG	GGGGCTTCT	TATATTCTTT
42201	GTTATTTTTT	ATTTTCAAGA	CAGGGTCTCA	CTCTGTTGTC	CGTGCTGGAG
42251	TGTAGTGGCA	CGATCCCGGC	CCATTGCAAC	ATTAACCTCC	TGGGCTCAAG
42301	CCATCCTTCG	ACCTCAACCT	TTAAGTAGCT	GGGACTACAG	GCTTGCGCCA
42351	CCAAGCCTGG	CTAATTGTTT	GTTTGTTTTT	TTCTGTAGTAG	AGATGAGGTC
42401	TCATCTGTTG	CCCAGGCTGG	TCTTGAATC	CTGGGCTCAA	GCAGTTCTCC
42451	CGCCTTGGCC	TCTCAAAGTG	TTGGGATTAC	AGGCATGAGC	TACTGTGCTG
42501	GGCCTCGCTT	TTATTTTATC	CTCCAAACCC	CATAACTGCC	TAATTAGAAA
42551	GTCCTTTGAT	TTCTCTCTGT	GAATATTTTA	AATTGCTCAT	CTCCATTGCA
42601	TCTCTACCAC	CTTGGCCTTA	ATGCAAGACC	TGACTCCCTC	TCACCTGGAC
42651	TGTTGTAGTC	ACCTCCTGAG	CTACATTTCC	TGTCTGTAAT	TTCTTTTCCA
42701	GTCTGTCTTC	AACCTGATCA	CCAGAGTCAA	TTTCTGAAA	CACAAATCAA
42751	CCCTATTATC	CTCCTGCCTA	AAAAAAAAAA	TCTTGGCTCA	GTGGTTCTTA
42801	ACAGGGACCA	GAATTACACC	CCTGGGGGCA	TATGGAAATG	TGTAGAGACA
42851	GTTCCGGTCAT	CACAGGGACT	GGCAGGCACC	ACTGGCATTT	GGAGGGTGAA
42901	CCGAGATGCT	AAGCATTTTT	TGTTTGTTTG	TTTGTTTTTT	GAGATGGAAT
42951	CTTGCTGTGT	CGCCAGGCT	GGAGCGCAGT	GGTTGATCCC	GGCTCACTGC
43001	ATCCTCCACC	ACCCGGTTCA	AACGATTCTC	CCACCTCAGC	CTCCCGAGTA
43051	GCTGGGACTA	CAGGTGCACG	CCACCAAGCC	TGGCTAATTT	TTGTATTTTT
43101	AGTAGAGACA	GGATTTACCC	ATGTTGACCA	GGCTGGTTTC	CAACTCCTGA
43151	CCTCAAGTGA	TCCCTCCCTC	TCGGCCTCCC	GAAGTGCTGG	GGTTATAGGC
43201	GTGAGCCTCC	GTGCCTGGCC	AAGATGCTAA	ATGTTTTGTA	GTGCCTGGTG
43251	AAATAGTTCC	ACACAGGAAG	TATCTTAATG	TTAGAAGTGC	TTCTTCTGAG
43301	GGACACTGGC	TGGTTCCCAT	TGCCTGGGAT	AAAGTCCACA	CTCTTTAGAT
43351	GACTTAAGCC	CTTTCTCAGC	TGATTCCATT	TCTCCTTATC	AGCTTCATTG
43401	TCTCCTGCTG	CTTCCCCTTC	ACACCCCTGTG	CCAGCCACAT	AACACTCACC
43451	AGTCCCCAAA	TATGTCACTG	TCCCTCACAG	TTCTATCTAG	TTCTGTGTTG
43501	CTTCTTGAG	ACGCAGTCCA	AGACATATAT	TCAATAGAAA	CAAATATTTA
43551	TCAAACACCT	ACTGTGTACA	AGTGCTGGAG	ATATAAAATG	AATGAAATGT
43601	AAGTTTTTCAT	GGTCTCATGG	GGGAGATACA	TACAAATGGA	TCATTATAAA
43651	ACAAGATGCT	CAATAAAACA	TGCACAGGGT	TTTATGGGGG	GCCCAGAATG
43701	GGTACCAGAG	GAAGAGGGAG	GTAGTTAGGT	GAGGCTTCCT	GGAGGAGGTG
43751	GTGTCTGCCC	TATAAAGGAG	GGAAATTAGT	GGCAGGTGGT	GGGAATATTC
43801	CAGGCAGCTG	GGGCAAAGTG	CTTGGCCCTC	ATTTCTGAAA	CCTAATGCTT
43851	TAGCTTTCCT	TTTCCAACGT	CAAACGAAAG	TGCCAAAGAC	AGGGCTTTGA
43901	GGATGCCTAC	ACTTTGCACT	TGGGAAGAGG	AGTTACCACA	ACAATGGTGA
43951	GAGAAGACTA	ATATGGAGAA	AATTGCAGCA	GTCTCCAGGG	CTCTAGAAAA
44001	CACAGGAGGA	ACCTCCCAAA	GGCCTCATAA	CATGCTTCCT	GCATGGGAAG
44051	AGGCAAGAAT	AGAAGGGAAG	AGAGAGACAT	GAGGCAGGTG	ACCTTTGCAG

FIGURE 3, page 14 of 33

44101	CCCAGCCACC	ATTGACATGG	CAGAACTGTC	GTGGGTCAGA	TAAGATAGAT
44151	TATTAGATTA	GAGAATTATT	TCTTTTTTGTG	CGATTGGCAT	GCATTTTACA
44201	AATTAAGTCT	TTAGAGCATT	TAAAATTCAT	CCCTGGCCAG	GCATGGTGCT
44251	GCACTCCTGT	AATCTCAGCA	CTTTGGGAGG	CCAAGGTGGG	TGGATTGCTT
44301	GAGCTACGGA	GTCGATACCA	GCCTGTGCAA	CATGGCAAAA	CCCCGGAAGT
44351	GGGTTGCAGT	GAGCTGAGAT	CGCGTCACTG	ACCTCCAGCC	TGGGCAACAG
44401	AGCCAGACCC	TGTCTTAAAA	AAAAAAAAAA	ATTATCCCTG	ATGATAGAAA
44451	GCTGTTTACC	TCTAGGAAGC	ACGAAGCCCT	CCCTGTGGAG	GAGTTCAGTG
44501	TTGATACTTG	ATTAATGAGC	CCATATGTTA	AGCAGAGTTT	CCTTATTTAT
44551	GTACATAGGA	AACAAGATTG	TTGTGGCTTT	GGGGTCAGGT	TAGGGAAACC
44601	ACAAAACTAT	TTACAGCTGC	CATCTTGAGT	GATGCTTGTC	AAAAAGAGT
44651	TTTCTATTAT	TTTTTTTCCA	TAGACTCCTA	GAGTTCCAGA	GTTGCACAA
44701	ATATTTGTCT	TGATTATTGC	ATTGATCTTT	AATAGGTATT	TAACCTCCTT
44751	TAGAAAGGCA	GCATAACCAA	AAGGTAGGAA	TTATCCCTTA	TTATTCTCAT
44801	GTCTTCCTTG	TCCAGAAATG	GGGCAGCTGG	GAATAGTCTC	CTTGTAGTGC
44851	AGATGGAGCC	CATTATTTAT	TTATTTGAAA	ATAATTTTGT	AGGAAGCCGA
44901	GGTGGGAGGA	TTGCTTGAGA	CTAGGAGTTT	GAGACCAGCC	TGGGCAACAT
44951	AGTGAGACCT	TGTCTCTACA	AAAAATTTAA	AAATCAATAA	TTTGGGGAGA
45001	GGGGAATATG	GTAAATGCCT	CTGTTTATTT	TTAAATTTCA	GCTTACTGTT
45051	TTGAATAGGT	TCTACATTTA	CACGGTCAAA	ATTCAGAATA	TACAAAAGAA
45101	CTTACAGTGA	AGTGCCTCCT	AGCCCATTTC	CCCAGGCACC	CAGTTCCTTC
45151	CTCCAGAGCC	CCTGCTCTTA	GTAGTTTGTG	GTATAGCCTT	GCAGAGATAT
45201	TCTGTCCAGT	ACAAGCCAGT	GCATATGTGA	TTGTATCAGA	TGGAGCCCTT
45251	TGGAGGCAGA	AGAGGCAAGT	GACATGTCAG	GGGTGGACCC	TGTGTTTTTA
45301	ACATGAATGC	CCTTTCTGCT	GGGCAGGTGA	AATTACATGG	GATGCTGCAG
45351	AATTGAAAGC	ATTTTTTTGT	TAGCAGATTA	TGACGTTATA	ACCAGCCCAC
45401	TTGTAATTGC	CAGGCCTCTC	CTGAGATAAG	CCATTGGCCC	GTAGGGAAGA
45451	CACTGAACAG	AGGCCCCGGC	CATCAGCACT	CAGGTCTGAC	TTTCTGCGT
45501	CTCCCTGGGA	TGCCTGGCCA	GGCCACTTGA	CCTCCTTCGG	CTTGGGGTTC
45551	CTTGACTGTA	TGATTATAAC	ATTAGATCAG	GTGATTCTGT	GGTCATTGCC
45601	AGTGGAATAA	CAAACTCTCT	ATAGGAAAA	GAGTGGCTTT	GTATTTAAAA
45651	ATATTACAAA	AACCTGGCTCT	TAGCTAGAAA	GTTTTTAGGT	ATTTAAATAA
45701	AGCTACATTT	TAGAATGATA	GCCAAATTAA	GAGCCAGTTT	AGACTGGGTG
45751	CGGTGGCTCA	TGCCTGCAAT	CCCAGAACTT	TGGGAGGCTG	AGGAGGGCAG
45801	ATCACTTGAG	GTCAGAGATT	TGAGACAAGC	CTGGCCAACA	TGGCAAAACC
45851	CTGTTTCTGC	TAAAAGTACA	GAAATTAGCT	GGGTGTAAGT	GGTGCATGCC
45901	CATAATCACA	GCAGGGGAGG	CTGAGGCACG	AGAATCACTT	GAACCTGGCA
45951	GGCGGCGGTT	GACTGTAGCC	GAGATTGCCC	CACTACACTC	TAGCCTAGGT
46001	GATAGAGCAA	GACTCTGCCT	CAAAAAAAAA	AAAAAAAAAGC	CAATTTAAGA
46051	ATGAGTGTTT	TAGCAAAAGC	TTTTGAAATT	GAGCACTTCA	TTGCATTTAC
46101	CTGTCAGGAT	AACCATTTAG	AGAGCAAGGT	CTATGTCTCT	GTATGTCTCC
46151	CAGTGCCTTG	AACATAGTGT	GCTTTGATTG	ATTAATAATA	ATATGAACAG
46201	GCTGGGCGTG	ATGGTTTCATG	CCTGTAATCC	CAACACTTTG	GGAGGCTGAG
46251	GCATGCAGAT	CACCTGAACT	CAGGAGTTTG	AGATTAGCCT	GGTCAACATA
46301	CCCCATCTCT	ACCAAAAATA	CAAAAATTAG	CTGGACGTGG	TGATGCAGGC
46351	CTGTAATCCC	ACCTACTTCA	GTGGCTAAGG	CAGGAGAGTT	GCTTGAACCT
46401	GGAAGGTGGA	GACTGCAGTG	AGTCAAGATC	ATGCCACTGC	ATTGCAGCCT
46451	GGGTGACAGA	CTCAGACCCT	GTCCCAAAAA	AACAAACAAA	AATAATAATA
46501	AGCAGAACAA	CAACAACAGC	AATAATAATA	ATAGCAGCTA	ACATTTACTG
46551	AATACTTACA	ATGTGTTAGG	TACTTGATAT	GTTTTCTTTA	GTCAACAGAT
46601	AGCCCCAAAC	TGAAACAGAG	ATCATCATAC	AACATAATATC	TGTGAGACCA
46651	GAACCTGAAC	CCAGACAGGC	TGTCTCCTAC	CTGTGTAATT	TGCCTGGAGG
46701	GAGAAATTAA	TGAATGATGA	TCTGAAAAAG	ATCATTGAGA	ATGGGTATCA
46751	AATAATGAGA	AAAACACACA	CTGTCTTCTA	TCTTCCAGAA	AAAAGTGCCT
46801	CTGACAGCTC	TTGCTCAAAA	TATGCAAGAA	GCATCGACTC	AGCTGGAAGA
46851	CTCTCTCCTG	GGGTAAGAGT	TGCTGCCTTC	AGAGTGCCAA	GTGCCATGTA
46901	GATTGGTGGA	AGTGGCTGGG	CCAGGTGGTG	TATGTAGGAC	CTGTGAGAGG
46951	AACTGTGAGC	GTTGATGGCA	TGGCTCATCC	GCTAGGAGAC	CGGCTGAGAC
47001	TCCTTGGGAG	AAAGTGGGGT	CAAGGCCGCC	AGGTTGCTGG	AGAATCTTCC
47051	TTTTAGTAGG	TGTCAGGCTG	GAGTTGGATG	GCAGAAAGGG	CCATTAACAA
47101	AAAAGCAACT	GATAGGGTCA	ATGCCTATTG	CCCTAATCTT	GGACAGAAAG
47151	AATGTGGTCC	CTTCTGTGTT	CCAGGTGTTG	GCTCAGATTT	AGAACTCTG
47201	ACCAGACCCT	TTCAAGTTCTT	AGTCACATCG	TTTACAGGCG	GTCACCAAAA

FIGURE 3, page 15 of 33

47251 CGTCCATGGT AGTTATCTAA AAAGAGTGTA TTTTCTGAAT TACTTGGATT  
47301 TTTTTTTTTT TTTTACAATT GTCATGTATT CTTTAAATAA TTTATATAAG  
47351 TAAGAACAAA GCAGTTTTTA TTGTAGGAGG GAAGGTATAC CCTTCTGTCT  
47401 GCTCCTGCAG CAAGGCTGGT GTTCTCTAGC CCTGTCTGCT CTCTCTGGCT  
47451 GTGACATGGG CCCTGCTTCC CAGCAGGACG AGGCCTTCAG ACTTTTCAGT  
47501 CCATTTCTCA GCGTCTACAG TTATCTCGCT GTCCTAGAAC AGTTTCCTCC  
47551 CATTTCGTAC CATTCTTTTC TCCTGTCTGC TTCCATGTTT GGGGGCCCTG  
47601 GGAGGAGGGT GGCCTGTGCC CACCTGCCAG CATCCTCCTT CCCTCCAGCC  
47651 TGAAGATTTT TCCTGTTTGT GCTTCCACAT GCTATGGCCA TCCTCATCAC  
47701 ACCAGAGTGA TACTGCGTGC TAGCATGGTT ATAAGTGTTT TCCAAGTAAT  
47751 AGCTCATTTT ATCCTTAAAA CAACCTAGGA GGTAGGTCAT ATCAGCACTT  
47801 AGAACATGTT TAACACACAA CATCACTCCC ATTTTACAGA CGAGGATACT  
47851 GACAGAGAGG GCAGGGAAAT TGCCTGAGAC CCCACAGTGG GAGAAGAGCA  
47901 AAGCCTGTAT TCAGACTTGG GCAGCTTGGC ACCAGAGAGC ATGTTCTCTGA  
47951 CTATGACACC ATGGCCACCT CACACCAGGC AACGTGCATT TCTGGTGTCA  
48001 AAAAAACCCC ATAGAGAGCT TGCAGGGGTG GAGGGGAAGG AAAGGAGAGA  
48051 GGGAGGAGGG AGGGATAGAG ACTGTGGAGT TATATCACTG CACGTGTACT  
48101 TTGTATGATA TCAGCTGCAT GTTCGCAAGC AAATAAAAAG GAAACATGAT  
48151 ATTTATGTAA CAGGGCCCTT AAGTGTTAGC CAGCTAGCTC ATCTGCATAG  
48201 CAGAAAGGGA GCCTGGCCAA GGCTGGACTC GCAGACATAA GATAACATGG  
48251 AATGAACCTA ATGTCTAATT TAAAAGATCT TCAGAGTATT TTGTGAACAC  
48301 TTGGCTTTCA CCTGACTTGA GAATTTAATT CTTGAGTAAT TTGTATTTTC  
48351 ACTGTTTACA CATCTGTCTG CCACCCACAC ACACAAAGTG CATCCCTGAG  
48401 ACAGTCATTT TTATTTTAAA GCACAAATCT GTGGACTCAT GTTTTAGGCA  
48451 GTACCTTACA TTTATAATAT TTTCAAGGCT CGTTAGGTAG CACCCTAATG  
48501 CGTTCCTGTT GTATGGCAAG CAGCACTGAT CCACACGATA ATCCAGTGCC  
48551 TGATTTAATG AGCACGTGCT CGTTGTTGGG GGTCTTGTTT TTAAAGGAAG  
48601 ATGCTGGAGA CGTGTGGAGA TGCTGAGAAT CAGCTGGCTC TCGAGCTCTC  
48651 CCAGCACGAA GTCTTTGTTG AGAAGGAGAT CGTGGACCTT CTGTACGGCA  
48701 TAGCTGAGGT GGGTGCTTCA CCGTGCAGCA CGGAAGAGCC GAGAGTGGTG  
48751 TGGCTGGAG AGTGAGTGT AAAATTTTAA CAGTAGTTGC TGGCTTTAAC  
48801 GTACCTTCT TTTTGGAAAT AAGGGGAGTC AATTGAAGGT ACAAATCCT  
48851 TTGCCTTAGA GAAAAACGT TTGTAAATAC TTTAAATGG TTAACCTAAA  
48901 AGCCCTGAAG TGCATCCCAT TTGGTATGTT CTTATTTTTA GGTGGAGATT  
48951 CCCAACATCC AGAAGCAGAG GAAGCAGCTT GCAAGATTGG TGTAGACTG  
49001 GGATTCAGTC AGAGCCAGGT AACAGCTTGA GCCAGCAATG CAGCATTGTG  
49051 TCCCATTCCT ACCACGGGGG AGAAGACCAC TGACAGTGA CACAATGGAA  
49101 GTGCTGCCA ATTCGTGCAT TTGACCCCA GACTGGGTGC CAGCCTGCCA  
49151 GCACCTCCTA TAGGCCTTGT TCTCCCAAGC GTGGCAGTGG GGATGTTGTT  
49201 AGAACATCCT GTTCTTAGTG AGCCAGCAGT GAAAGGAAAT AATCTAAGGA  
49251 AAATGAAGTG AGTATATTTA ACGGAAGAGG GGATGTTGGC AGTTTGTAGA  
49301 GCACAACCTA GAGTGTAGGA ATAAACACAT CTGTGGCCCT AACAGCTCAT  
49351 GAGGGTCCTG CCATGTCACA AACCCTGTGT ACTTGTAAATA CCTTCAGTAC  
49401 CAAGGAAGGA GGCACCTACA TGGCAGGAAC TCATGTAAAC CTATGTAGCC  
49451 AAATCAGCGC TGCTGATGTG GGGACTGATG CCAGCGAAGG AGTCTGTGAG  
49501 GATTCAGAGC AGGACTGCTG CCTCTGCTTT GTCCTTGATG GAGTTTTTTG  
49551 GCTTTTTTTT CTTTCCTTTT CTTTTTTTTT TTTTTTTTTT GAGTCAAGGT  
49601 CTTGCTCTGC TGTACCAGGC TGGTGCGATC ATAGCTTACT GCAGCCTCAG  
49651 ACTCCAGGC TCAAGTGATC CTTCTGCCTC GGCATCCCAG GTAGCTGGGA  
49701 CTACAGGCAC ATGCCACAGC TTGGAGATGG TGTCTAGCTG TGTGCCCCAG  
49751 GCTGGTCTTG AACTTCTGGC CTCAAGTGAT CCTCCCACCT TGGCCTCCCA  
49801 AAGCGCTGGG ATTACAGCCA TGAGCCGTGG TACCTGGCCC TCAGTGGAGT  
49851 TTCTATCAGT GACTTACATG GCTTCTTCTC CAGGCATGTG ACAGTTGGGA  
49901 ATAGGGAAC AGGCACCACC AGCCTCAGTC CTGTTTCCTG CTTTATCACA  
49951 AGGGTTGACA AACCTCTTCT GTAAAGGGCT GGATAGTAAA TCTTCTGGT  
50001 GCTGCAACCC AGTTGCTCCC TGTTGTAAC TCTTAACCTC GCTGTTGTAG  
50051 CATAAAGGCA GCTGTAGGCA ATGCATACAT GAATGAGCAT GGCTGTGTTT  
50101 CAATAAAACT TTATTTACAA TGTGTACAAA TCAGTTGTGA AGATGAGTCC  
50151 TGATTTAAGA AATGTTGAGA TGAGAAAAGG TATATTTAGG AATTACACAC  
50201 TGGTGAAGAC TCTGCTAGTG CAATTATCAA GTAACCTACC TCTTGCCACA  
50251 TGCCAGAGAT CGAGCTACTT TCATTTTATG TCAGCCCAT TGAATCTCCC  
50301 AGCAATCCCT GTTCATTTGT TCATCTGTGT TTTCAACTGA TATCAATTAG  
50351 GTGCTCAGTG TGCACCAGAC TTTGTGCTAG ACTCTAAATG CATAGGCCTT

FIGURE 3, page 16 of 33

50401 TCCATGTGAC TTGGAGGGAA CAGGGTAGAG GTTAGTGTA CATTCCTAC  
50451 TTTTGAGAGG AGACTTGT TTACAGATAAG GGAGGGACCT GCATTTGTTA  
50501 TCTATATGAC TTGCTTTGTG CCTTCAGGAG CATACATTGC AGTGTTAGGA  
50551 TTCTGACAGC AAAGTCCACA GTCTCCTGGT CATGTGTACA TGTGATGTTT  
50601 CCTGTACCTT GGGCTGGAGT GCAGCGGTGT GATCATAGCT CACTGCAACC  
50651 TCAAACTCCT GGGCTCAAGG GATCCTCCTG CCTCAGCCTC TCGAGTAGCT  
50701 GCACACCACC ACACCCAGCT ACTATTTTTT TTTTTTTTAA GATGGAGTCT  
50751 CTCTCTGTCA ACCAGGCTGG AGTACAGTGG CACAATCTTG GCTCACTGCA  
50801 ACCAAGGTGC TGGGTTCAAG CGATACTCCT GTCTCAGCCT CCTTAATAGT  
50851 TGGGATTACA AGCATGTGCC ACCACACCTG GCTAATTTTT GTATTTTTAG  
50901 TAGAGATGGG GTTTCACCAC ATTGGCCAGG CTGGTCTCAA ACTCCTGATC  
50951 TCAGGTGATT TCCCTGCCCT AGCCTCCCAA AGTGCTAGGA TTACAGGCGT  
51001 GAGCCATGTC AACAGCCCC AGCTTTTAT TTTTAGTAGA GACCTGGTCT  
51051 CGGTATGTTG CCCAGGCTGG TCTCAAATC CTGGCCGCAA GTAAATGTCT  
51101 CTTCTTGACC TCCCACAGTG TTGGGATTAC AGGTGTGAGT CATCACACCT  
51151 GGCTGTACG TGTGATTGGA ATCCTGTGTA GCTGAGAGTG CAGGCCACCC  
51201 TGCGATACAT CTTTGCTCAA GAGAAGGAAA AATATTCTAA TGATTAATTA  
51251 AACAAAGCAG CAAATGCTCC CTCACTAGAG TTGGTTGAG ATTATTATAG  
51301 ATGTTTATCT GACAGGAGTT TTGCATCTTG AGTGCATGTA TCTCATAGGT  
51351 GATTTTAATA CTGATTCTTG ATCTTGCAAT CATGGTCTTG TTCACTTAAT  
51401 CACAATAGGT GTTGGAGAAG CTGAAACAAT TGAATATTTT CACTTTTTCT  
51451 CATCTTCTT GCTTTTCCCT GGAGAAAAAA ATGGTGAATA AGTAGGAATC  
51501 CATATATATG CAGACATCAT ATGCTGTGCA CATGCACACA TATTTTTCTC  
51551 GCTTTTCCTC CTTATGACAG TTCCACAAGG CAGACAGTGT TTGTGATAGT  
51601 TTTGTAGATG AGGCAACTGA GATGCATAGG AGGCTAAGTC ACTAACTAGG  
51651 TCACATAACT AGTTAAGATA AAGCTGAGCT CCAAACCTGA ACATGTCAGA  
51701 CTCTGAAATC TATGCTCCTT TCACAATATA GCATCTCCAG TTTAGCTTTG  
51751 GCTGACTTGC TGAAGCCTTT TGGTGGAGGA GTGTGTCACG TCAGGAACAC  
51801 AAAGTGGGCA GAACATAGCA TTTTGGGGCA CTGCAGCAGT CTAGAAAGTT  
51851 TAGTAAGTAG CTAACATGTT TTTTGGGTTT TTTTGTGTTT TTGTTTGAGA  
51901 CAGGCTCTCA CTCTGTCCCC AGGCTGGAGT GCGGCGTTGC GATCTTGGTC  
51951 TGGGCTCACT GCAAGCTCTG CCTCCCAGGT TCACGCCATT CTCTGCCTC  
52001 AGCCTCCCAA GTTGCTGGGA CTACAGGCGC CTGCCACCAC GCCCAGCTAA  
52051 TGTTTTGTAT TTTTAGTAGA GATGGGGTTT CACCGTGTTA GCCAAGATGG  
52101 TCTCGATATC CTGACCTCAT GATCCGCCCA CCTCGGCTTC CCAAAGTGCT  
52151 GGGATTACAG GCGTGAGCCA ACGCACCCGG CCAACGTGGG TTTTCTTGCT  
52201 GCATTTTATA ACATCTATGT TTACATTTAA AGTGATAGAG TTTTCCACAA  
52251 CACCAGACAT ACCCATTTT AAACAGAAGG TCAAAGCACA TTTGAAAATC  
52301 AAAACAAATT GTTTTCTATG ATTATTTCCC ACTTTTCCCC TATTATTACT  
52351 ATAGTTTCTT TTTTTTCTT TTTAGTGCTT TCATAGCTAT TGATTGATAC  
52401 CTACATTATT ATTGTTATTG TTGTTTGTAG ACATGGAGTC TTGTGTGTT  
52451 GTCAGGCTG GTCTCAAAT GCTAGCTCAA GTGATCCTCC CACCTTAGCC  
52501 TCCCAAAGTG TTGGGATTAC AGGCGTGAGC CACCGCACCC AGCCTCATAG  
52551 CTACACTATT GAAGTTCTGG CTTTACTTT CTGAAAGTAA TCCCAGGTCA  
52601 CAGATGGTAG TATGGTAGTG GAAAGAGCCA CAAGGAGTTC TCAAAAGCAG  
52651 GAGCTGATTC CCAAGTGGCAG AGGGAACATT TCAGCTCAAA GCAAGAGAGC  
52701 AAGGAGAGCA CCTTGCTCTC CTCCGGTGGC AGGGATTCCA TGTTGGCCA  
52751 CCACAAGAAA GGGGTTCCAT GGATTTCTCT CCAGTAGTAG AGTTGTGTG  
52801 AGACAAGATG TGGTTGGTTA TGCTCAAAGC AGACCACTAC TCCTAGCACT  
52851 ATGAGAGTCC TGTCATGGTG AGAAGCTAAA GTCTCCTTTT GCCTGCTTCC  
52901 ATTCCTAGAG AATAAGCTCA AGAGAATTG GCATCCTGGG CAATGATACC  
52951 CCTCCAGGT AGAATCAATT GTGGGGAAGG ATCTATCTCC ACCAGGTCCT  
53001 GCCTCCAGCT GTTGAGTATA CACAGCTGGT TCTCAGATGC TGGTGACCCC  
53051 TTTGTTTTGC AGGTGGAACC AAGCTCACA ATCCTCAGGA ACCAACTTTC  
53101 AGGGGCTTCC ATCAAAAATA GATACTCTAA AGGAAGAGAT GGATGAAGCT  
53151 GGAATAAAG TAGAACAGTG CAAGGTATGA GAATTCCTTG ATAAATGTAT  
53201 CTTTTCGGTT TTTGCAAATG AGGGATGAAA GTTCAAATGT AAGTTACTTA  
53251 ATGTTTTTAA TAATTTCTAT CAGAATATTT TGAATGATTT TAAAGGTAGG  
53301 TTTTATTTTC TTCTTCTCTA AGACTATATT ATTTTATGAT CAGAATAAAA  
53351 CATTTTAAAT TTCAAATAGG ATATTTTTTAA AAACCTGACA AGATGTCTAA  
53401 GCTTATTTAA AGATGAAGTC AGAAAAAGG AAAGAAAACC ATAGCAAAAC  
53451 ATATAATAAA ATTACAGCGA TAAAAATGC ATAAGAAATA CAAAAGTAAG  
53501 AAAAAAGAAG TAAACTGTAA TAAGAAGCAT TAAATAGAT CAGTGAAATA

FIGURE 3, page 17 of 33



53551	GTATAGGTTT	TCTGGAATGA	ATGCTATAAT	GTAAAATTTA	ATATACAGTA
53601	AATGGCTCAT	ATGTCCTTGG	AGAAGATAAG	GATTACTTTT	AAAATGTTGC
53651	TTGAACAATT	GGTTTGTAAT	TTGGGAGAAA	TAGAGCTTTT	TATCTCATAA
53701	ATTACAGATT	AATTAGATGG	TCAAGTGATC	TCATTCTCTC	TGCATCCACC
53751	TGTTTAGATA	GATGTTTCATT	CTGAATGTTA	TTTGAGGTGA	AATTATTTGA
53801	AATGGTAAAG	GAATAGGTCT	TCGGGGAGTC	TTGACAATCT	AGAGTCTTAA
53851	GTCTGGATTG	ACTTAGACTT	TTCTTGCTCT	TATTTTTCAT	TGTTTTAAAA
53901	AAATTGTTTT	TTTATTTTCT	GCTAATATTA	AGACTGTTAT	ATTTTAGTTC
53951	ATTTAGGTCA	TGACATACTT	TGCTTTTCAA	AATAGCAAAC	CTTGATCAGT
54001	TAACTGCAAT	TAAATGACTT	GTTTAAAAATA	ATATAGTGGG	TAGAAATATA
54051	AGAAAAATAT	AAAAATAATA	TAGTGGGTAG	AAATTAAAAAC	TAAACTCACA
54101	AAGTTAGTCC	TTTGTTTTTAA	AAAGTTTTTA	TGTTTAAAAAG	ATGATATTCA
54151	GATAAATGCT	TCTACTAAAA	TAATGTCACA	TTGGCTTATT	TGTGGTCTGA
54201	AGAGTTGTAG	CTTTGTCAGT	GTCATTTACC	CAGCAGTCTT	CTTAATATCT
54251	GGTCTAACCT	AGATCCTGGC	TATTGCCTAC	TTATTGCACA	CAAATTTGGG
54301	TAGAGGTTTT	GGAAAGTCATC	ATGGGCTGAT	GTCTGTTCTC	TCAACTTCCA
54351	CAC TTGT CAG	TATTTCAAGT	GGTAAAAACT	TAAGAAAATA	TTTTCTGCCT
54401	CCTTCTCTCT	CTATGCATAC	CTTG TGGGTA	ATTTCTCAG	ATCTATGTTT
54451	TGTTTCACTG	ATTCTCTCTT	TAGCTATGTT	TGATCTGCTA	CTCAAATAAC
54501	ACTGAGTTTT	TAATTTTCATT	GACTATATTT	TCCATTTCTG	AAGTTCTAGT
54551	TATTCAAATC	TTTTTGATAC	TACATTATTC	TTTTCTAGTG	TTTCTTTCTT
54601	TTAAGTCATT	TTAAACATAC	TTATTTAATA	ATCTCTGTTA	ATTCTGTTTT
54651	CTGAAATTCT	CTGTGAGAGT	GGTAGGTGTC	TGCTTG TGGT	GGATTATTTT
54701	CTCATGTGTT	TTGTAATTAT	TTGAACTCAT	TTTAAGAGGG	GCTTTATCTG
54751	TGGGACTATC	AGGGATTGGG	AATGAGACTT	CCCAGAGAGT	ATTACCAGTC
54801	CAGGTCCATT	TTTAATTAAA	CTTAAATCAG	TTTGGGGTTT	CTGGGACCAC
54851	ATGTCAGTAA	ATTTAAACTT	TAAACCCTCC	TGAAAGCAGG	CCTATGTTTT
54901	GTGAAATCTC	TTGGCCAATG	TTTCTCAGAC	CTAAAGCCCA	TTCCAAAACA
54951	GACATACTTC	CCCATGATTT	CCATGTGATG	CTAAGTGCAT	TTGTCTAAT
55001	CTGTTGTTTC	GTTGAGAGTA	CAGTTCTTCA	GGAATCTTAT	CTTTATGCAT
55051	GATATATGTG	TACTTGTTTC	TCCTTACTAG	TCCCCAAGGC	TTCAGACACC
55101	TTGGTCACTA	AGACTGGCAC	AAATCTGCCC	CAGGT CATCT	CCAGCTTCCA
55151	TTGATGCTTA	GCATTCCGAC	TTTTTCTTTC	TTTCTGCTTC	TTTTTCTTCT
55201	TTCTCTCTTT	GTGTGTGTGT	GTGTATGGTG	GGGTTGAGGG	GAATCAAGGA
55251	ATTTACTTTA	TGCTTTTCCC	AGTTATTATA	AAAGGATGTT	CATTACTTCT
55301	AAC TAGCATT	TCCAAGTTTT	TGTCATAAAT	GGGAGGCCCT	TCACATTAAT
55351	TTGTGTACCT	TGATGCCAAA	AACAGAAGTC	ATTACATTAA	AAAAAAAAAC
55401	AAACTCTCTC	TACATATATA	TTTTCCGGCA	TATAAGTTT	CATATATATA
55451	TATATATATA	AAATTCCTAT	GTATATTTAT	ATTTGAAGAT	TGGAAATACG
55501	TACCTAATTG	CCTAATCTGT	CAC TTTAAAT	TTCTTTTGG	CCAGGTGCAG
55551	TGGCTCACAT	CTGTAATCCT	AGCACTTTGT	GAGGCTGAGA	TGGGAGGATC
55601	ACTTGAGGTC	AGGAGTTCAA	AACCAGGCTG	ACCAACATGA	TGAAACTCCA
55651	TCTCTACTAA	AAAACAGAAA	AATATTAGCT	GAGTATGGTG	GTATGCACCT
55701	GTAGTCCAG	CTACTCAGGA	GGCTGAGGCA	GGAGAATCGC	TTGAACCCCG
55751	GAGATGGAGG	TTGCGGTGGG	CCAAGATTGC	GCCACCAGAC	TCCAGCCTGG
55801	GCTACAGAGC	AAGCAAGACT	CCATCTCAAA	AAAAAAAAAA	AAAAAAAAAA
55851	AATTTTTTTT	TTTTTTTACT	TAGAGACTAG	ATCTTGCTCT	GTTGTCCAGG
55901	CTGTTCTCAA	ATTCTTGCTT	CCAAGCAATC	CTCCCACCTC	AGCCTCCCAA
55951	AGTGTCTGGG	TTACAGGCAT	GAGCCATCGT	GCCCCGCCAT	TCCACCCCTT
56001	TTTTAACCCA	GATGTTAATA	CACCATAAGT	AATGCTCTGT	ACTTTGCTTC
56051	TTAAACAGAT	GTGTTAAAAAT	ATATCTTGGA	GATCTTTCTT	TGTCAGTCAAT
56101	GTAAGAAGCC	TCCTTATTCT	TTCTGTATGG	TTGTACCAGG	CAGTTGATGG
56151	ACATTTAATC	TGTGGTGCTT	TCCATCACTT	TTTCATCTAA	GAGCTCACAG
56201	AGATTGTTCT	CAGATGCCAT	TTTGTTTCAC	TTCTTTTTC	TTCAATAACC
56251	TCTTATCTTC	CATTTACCCA	GGATCAACTT	GCAGCAGACA	TGTACAACCT
56301	TATGGCCAAA	GAAGGGGAGT	ATGGCAAATT	CTTTGTTACG	GTAAGCACCT
56351	TCCCTTGAGA	AAATGTTAAA	GCATTGTTAA	AATGGAGTCA	TTTTAGCTTT
56401	TTTGCAAAAG	ATTTCAATTT	TAGTTTTGCT	CAGCCATTGT	GTGTGTGTCC
56451	ATCCGATGCT	AACGTTACTT	TTGTTTTTGA	ATGTGGGTCT	GTTCTCAGTT
56501	ATTAGAAGCC	CAAGCAGATT	ACCATAGAAA	AGCATTAGCA	GTCTTAGAAA
56551	AGACCTTCCC	CGAAATGCGA	GCCCATCAAG	GTAATGTAAC	CCGCGTGCGG
56601	CTGATGCTTC	CTTCTTGCTT	CTGCCACCTC	TGCCTGGGTT	CTTCTTCACC
56651	CTGACTCCTC	TGCATGCACG	TCCTTGGGAT	AAAGCTTCTC	TGCC TAGGAG

FIGURE 3, page 18 of 33

56701 GGTACTGTTT CCCAGCATAA TTTCATCTTC CTTGCTGCAT TCTCTAATTT  
56751 CTTCCAAACC CAAATTAACA CACTAATGGA ACATTTGTAG TTCTTCTGAA  
56801 ACCTTCAGTT GAAGAGAAAG CTGGCCTCTT TGGGGAGTAC CTGTGTGTTT  
56851 TCCCATCTTC TGTAGGCTTG AAAAAGTCCA GCATTGAATG ATCCTTTTCC  
56901 ACATCAGTTA TTTGTTCCAC AGGACTTAAT TCTGGCCATG TGACTIONAAG  
56951 AGCATCCATT CTAGGGAAAA TATTTTGGAC TTTCCAAAAG AGAAGCCAGT  
57001 ACTTGATGCC ACATCATGCA CGTCACACTT AATAATAAGT GTGATTGAAT  
57051 CCTAAGACCG TGGTCGCTTC GTTCAGACTC CTCCTTTGTC TTTATACTAA  
57101 GCTTTTGTTC TTATCACCAT TAATATTTCT CCTATCATAT TCAAGCACAC  
57151 TGCAGATTGT ATCTGCAAGT TAGGTGCAGA CTGAACTTTC CCCTTATGTT  
57201 GAATTTTAAG TTGGGCATCT AAAGCTGCTT TTTTTTTTTT CTCTCCCTAA  
57251 AGCTTTTCAT GCTGTGTCTC TCTGATTAC CATTAGAGCA TTTACCAGCA  
57301 GAGATGAGCA CAGCTGTTGA GTCAGAAATT GCTCGGCCGT CTTGGATCT  
57351 ATTTACCTG TGGTGTAGAC CTGACATTTG GAGCTTATGC TCCTCTGCAG  
57401 AACCCTGGT CTTGAGCTGA AAGGGGATCA GGCCAGGTGC TGAGTGGGAT  
57451 GACTTTGTGA TTTTGAGACC GAGCATGTGT CTGTGTGTGT TGTGGGGGGG  
57501 ATGCTTTGTG GATGTGCATA CATACCAGCA CCTCAAGAA TCGACTTCT  
57551 TCTCCCCCTA AGTTCAGGA GATCCTCACA GGTTCCTGGC TTGTGCCTGA  
57601 AAATTTTGGG ATTATGGAAT TATAAAATTT TATGTCTTGC CTGACCATAT  
57651 AGTCAGATCT TCAGCATTCT CAGGGGCAGT GTTTCTGATT TTCTCAGCCA  
57701 TTGCCCTTGC CTTCCCAAT AATCAAGATT ATTAGTTCAT GGAGGATGGT  
57751 GTTGAGTCAC AGTGCAAAGG AACGAGGTCT CTGGAATATG TTCCACCTT  
57801 TCTAGGGACA GACTCTTGCT GGGCAAGTTC AGAGGACCAA GAAAATATAT  
57851 TTATGAGATA TCTGCTGTGG GCTGGGCCCC GCATAGGACA AAATAGTAGA  
57901 CAAATCATCA TTTTAGCCTT TGAATGGCTG AGAGTCTGAT TTGAAAGAGT  
57951 TGATTAACAA GAGGAAAAAC GAGAGATTGG ATTTTCTTTC GCATTTTGT  
58001 TGTTTGTGTTG TTTTAAAGAG ACAAAGTCTC ACTCTGTTGC CCAGGCTAGA  
58051 CTAGAACTCT CATTCTGTTT TTTTCCCAAG GGTATTTTCC CTAGAGAAAT  
58101 ACATCAGGAA GCCATGGAGA GCGGGGATGG GACAGGAAAG AGGTAGGAT  
58151 GGAACAGCCC GTGGAGGAAG TGCGATTTGT CTTCTTGCT GAGGTCACCC  
58201 TTTACCGAT TGCAATTCAA CCCCTCCAC CTCTGCCTGT CTTGTACCT  
58251 GCCTTCTATC TTAGTTCTGT CTTTCTTTC CTTGCTGTCT TCTCTGTTT  
58301 CAGAAAGACT TATCTTGTCC TTAATATATA AAAAAAGTGT GACCTGCCCC  
58351 CACAGCCCCC TCACCTCCGT GGAATCTGGT GTCACATTCA TGGTCAGTTG  
58401 GTGGTAATCT GTTACCTTCC TGACCTGAAC ACAGCGTCTT GTTTAATCTG  
58451 GTTCTCCTTC ATTTTCTCTG GTGGGTACTT CAGATGACCC CTTCTGCCT  
58501 GCCACCTGCA TTTTCTTACC ACCTTCCTAC TCCTGAATCC TTTGCACTCT  
58551 TGTGTTTACC CCAATCCCT CTGCTGTTTA GGAAAAAGA GCAAAACATA  
58601 CTGCAGTTTT CAAAGGACCA GCAACCACCC GTCAGATCCT GGCATTTGAC  
58651 CCGGCATGGG CCGTCCCTTC CTTATTCAAT TTTGTCTCCT CACGCCACTC  
58701 GACTGTCTTC TTTCAATTGA AGGACTCTGC ATTGCTCCAT TTCTTTTAA  
58751 AAATTTTCTT TCAAGAAGGA TTATATATTG CTCATTCTTG TCTCCACCCC  
58801 AGAAGTCAGC CTTTCTGAG GTCCAGTCTT TGCACCTCTG TTCTCTCCA  
58851 CCTTCATCTT CTGCCCCCT TTTCCCTAGA AATCCCCTTA CTTGGACAGC  
58901 TTTGCTCTT ACCTGCATTT TAATCCTTGC AGCCTCCTAA GCATCGGTTT  
58951 CCTTTGATGA ACAGCACTCA CCTTAAACTC AAAAAGCAAA CCAGTCTCTT  
59001 TCCCACTCCA ACTGTCCCTT TTCTCCCTTC TTGTCTCCCT TATATCACCT  
59051 TTCTCCAAGT GATTTCAGGT TTAACCTTGG AACCTTTTC TCCTTCCTCT  
59101 CTTCCATCCA GTGCCTGGGT TCTGTCCATT TCGCCCTAGG CTCTGTCTATC  
59151 CTCTCTTCCC CTGGCCCCCT CTGCTCCATG CTCTCACGGC CTTGGCGTGA  
59201 ACTTGGGATA AGATGTAAT TCCCAGACTC ACAATTCCTG ATCTTTTCTC  
59251 AGCTGATTGC CCTCACAAA GATGTGTTTG TCCGTTTTTC AGCCTGTTTA  
59301 ATCTCTGTCC GTCTCATGAG ACCCCCTCCA ACCTCATTTT CTTTGAGAAG  
59351 CCTTCTCCGA CAGCTGAAGC CAATGGCAA CACTTTGCCT CTTGAATTGT  
59401 GCCAGCATTT ATGGTCTACA CCAGAAGTCG CAAACAGCCA TATCTCATTA  
59451 AAAATTGTTA AAAGTTGGTT GTCATCATGT GAAAACCAGA TGGTTTGATG  
59501 TAACAATTCT GATTTCTGGC TTCTCCTGAA AGTTGAGAAC ATCTGGCAAC  
59551 ACTGGCTTTG CTTTCCACG TGGCAGTGT GGTTTGTGTC AGAGGAGTGG  
59601 TTATCGCCTG TCGGCAGATC GTGCACTCCC AGCAGGATTT GTGCCCTGT  
59651 GCTACCTATC CCACTCTCTT GGACAATTGC ATTTGCAACC CTTGTCTATA  
59701 CCATCGATCT GCCATGACTT AGCAAATATG TCTTGTCTTG TTATTGACTG  
59751 TTCTGTGTTT ACATGTGTGT CTTATATTCC CTTACAATT CAATTGCCCT  
59801 CTTCTGAGG GTAGGGAGTC TCTGTTAACT TTACATGCCT CTTGCAGTAC

FIGURE 3, page 19 of 33

59851	CTGACACATA	GTAGGTCTGT	TGTTTGAGAG	GCCAGTGCCT	GAGGTGGAAT
59901	TTGCCATTATG	ACTTGCTTCT	AGGTCAGTGG	TTCTCACTTG	CACCCTCTGT
59951	CAACATTATA	CCAGGCTTGG	GGGTGGGGTA	CACTCTGTCC	AGTGTTTACT
60001	AGAAAGTTCC	AGCAGAGGTT	TGAAGCATGC	CCGCCCCCTTA	GCATTACAGG
60051	GTTGGGCTTG	TGGTGAAGGC	AATGGCGGGT	GTCATTTGCA	GAACCCCCCT
60101	GGGTGATTCC	AGGGCATCCC	CTAGTGGAAG	GCTCACGTGG	CCATTTTCAG
60151	CCTGTGTTGT	AACTTATTGC	TTTAGATAAA	AGGGACAAAG	TATTTACAGG
60201	AAGATTTGAC	CTCTGGGAAG	GTCCAGACCC	CCAGATGCGT	TTTCTATTGG
60251	AAATTCCTCA	GCTGGGGCCG	GGCCAGAGAC	GAGGAGGGCT	CCCCACAATT
60301	CTGAGAGTGG	CTGGTGGCCT	GCACCTCATT	TTTGTCCCCC	ACCTTCCTTT
60351	CCCTCACCCC	TTTCTTCAGT	CTTTACCTCT	TGCTCTTTCC	ATCCATTTTT
60401	ACCTTTCCAC	AAGCTCTCGG	TTCTATGGAT	TTGTGGGATT	TTATTTTCT
60451	TCCTTCCCCA	TGTGCAAATC	TACCCCTGCT	GTGACATGGG	AGAGAGTGTA
60501	AGAGGACACA	CCAGAGTACA	TACTGCCTTC	TTCCAACCCA	GCTTTCTAAC
60551	AGCAGAGCTG	CTAAGGGACC	AATGGCCAGT	AAAGGTGCAG	AGAAGGACAT
60601	GAACCCCTTC	TGTTGTTGGA	AAGATTTAAG	TGTTTCTCCC	TGGAGCAGTT
60651	TTCAACAATG	GTTTGCCCTC	CTTTGCTTCT	GCGAGCTGCT	CAGATAGCAC
60701	TAGATCTCTG	CAGCTTGCAC	AGGCAGGCCA	AATTCAACCA	GATACTTCTT
60751	ATTCTAATTG	ATATGTCGGT	TCTCTAAATT	CTTCTTTCTA	TTTACTGCT
60801	TCAATTGATT	TGTGCTAAGC	TGCCTCATAA	CCTGAAGATA	ATCTAAAATA
60851	TGGCTTTTCT	GCCATCAGCA	TAGCCTTCAG	CTGCTTTAGG	GCTGCAGATG
60901	CTGCATTTCT	TTCCACTCAG	AATTTTTTCG	AGCTGTTTGG	GGATGCGGTG
60951	TTCTGAAGCA	CTGCATGCCG	CGGAGATGTC	GCATCTGATG	GAGAGTAACT
61001	GCAACGTGGA	GAGTTCACGT	TGGCCATCTC	CAGTCTTGTA	TGACAGATAC
61051	TTAACTTGTG	TTTGAAATTT	TCAGAGATCA	TTTCCATTTT	TGCATAGCAA
61101	AGAATCTATT	TCTTGTCCCT	TAGCTAGAAG	GCTTTGCATG	GCTAGAATAA
61151	ATTTCTTTTC	AACGAAACGG	TATGCTCTGG	CAAATCTTCC	TTTTGGTTCA
61201	AGGCAGCCCA	CTAAACCCCG	TGGCGTGTGT	TGATGAAGTG	TGGTGCAGGT
61251	GCAGCGTGCC	ACTGCAGCTT	CTGGGCAGCC	TGAGTTGGTG	CCATCTAGGT
61301	ACGCTCAGGC	TTCTGTTCCA	CAAGTAACCG	CCCCAGCCTG	GTCCATAGTT
61351	TGCTGCTCCA	GTAGATGGCA	AATAACAAAA	GCAAATAGAA	CAGATGTATC
61401	CCCTCTTGCA	CAGCCTCACC	TACCAGTCGG	CTAGAAAAGC	CATTGGGTA
61451	GTTGGGGAGA	AAATAGCTTG	GTAATGCCGT	GAGTTTGTTG	GGTGCTAAC
61501	TGAACAATTT	GCTGCTCTAG	ATAAGTGGGC	GGAAAAACCA	GCCTTTGGGA
61551	CTCCCTTAGA	AGAACACCTG	AAGAGGAGCG	GGCGGAGAT	TGCGCTGCCC
61601	ATTGAAGCCT	GTGTCTGCTG	GCTTCTGGAG	ACAGGCATGA	AGGAGGAGGT
61651	GAGGGGAGCT	TCGTGATCCT	GTGCACCAAG	TCTCCATGCC	CCTTGTGTGA
61701	CCCAGAGCAC	CATGCTCCCC	GCCAGCCCCC	TGTCCACCCC	TGCTTAGTTA
61751	TACAGGCATT	GTCCGTTTTG	TGTAGAACAG	TGGCTTTCAA	GCTTTTGTCA
61801	CCATGATCCA	TATTTTAAAT	TGCAACCCTG	TTCCCTATGA	TACCTATCTG
61851	TCTATGAATG	AAACAAAGGT	TTTACAAAAC	AATGTTTACC	TTTCTGATT
61901	GTGGTACACC	CTGACCTCTT	TGTGTCCTGT	TTGATTGTTT	CATTTAAAAC
61951	TCTGGTTGTG	ATTTGTGACA	ATAGATTTTC	TGACGCACTA	ATGGGCTAAG
62001	GAGCTTTAGT	TTACATTTGC	ATAGTATTAT	GCAGTTTTTT	TGGTTGGAGG
62051	TCATTTACAT	ACTTAATTTT	ACAGGATTCT	TACCCCAAAC	CCCCCATGAA
62101	CCAAATAAGG	GAGTTTTTAT	TACTCTTCTT	GTATAAATAA	GGAAGTCAGC
62151	ATGCAGGGAG	TTTACTCCAG	GTCAGAGCTA	GAATCAAAAT	GCAAGGCTTT
62201	TTTTTTTTTCC	TTTTTAAAGC	TTTGTATTGA	AATAGAACGT	ACATACAGAA
62251	AAGCATACAT	ATCATAGGTG	TACAGCTTGA	TGTGCTTGCA	TGACTAAACC
62301	CACCCATGGA	GTCGGCGCTC	AGATCAAAGA	ACATCCCGGA	AGCCCTCCTT
62351	GTGTTTGCTT	CCAGCCACTC	CCCTTCTAAC	AGCCTACATT	GGTGCTTCTT
62401	GTCTGGGGCC	AGATTTGCTC	CCCAGGAGAC	ATTTGTCAAG	GTCTGGAGGT
62451	ATTTTGATC	ATCACAATG	AGAAGAGGAG	GTGTTACTGT	CATCTAGTAG
62501	TAGAGGCCAT	GTGTATTCTG	CCATTCTCAC	ACTGCTGTAA	AGAACTACCT
62551	GAGCCTGGGT	AATTTATGAC	GAAAAGAGCT	TTACCTGACT	CACAGTTCCA
62601	CAGGCTGTAC	AGGAATCGTG	GCTGGAGAGG	CCTCAGGAAA	CTTACAGTCA
62651	TGGCGGAAGG	GGAAGCAGGC	AGTGTTTACA	TGGTGAACA	GGAGGGAAG
62701	AGCGAGCATG	GCGACAAAGG	GGGAGTTGCT	ACACACTTTC	AAACAACCAG
62751	ATCATGTGAG	ATCTCACTCA	CTATCACAAG	AACAGCAAAA	GGGAAATCCA
62801	CCCCATGAT	CCAGTCACCT	CCCACCAGGC	CCTGCCTTCA	ACACTGGAGA
62851	TCATACTTCC	ACATGAGATT	TGGGTGGGGA	CACAGAACCA	AACCATATCA
62901	CCATGGATTG	TGCTAAACAT	CCTACAGGGC	ACAGGACAAC	CTCCAACAAA
62951	AAATCATCCA	GCCTAAAATG	TCCATAGTGC	TGAGGTCAAG	AAACTCTGCC

FIGURE 3, page 20 of 33

63001	CAGATTAATT	TTCTTCCTGC	CTGTCCCTGT	GCTTGGGTGC	GTGCTCAGCC
63051	CTCATCATTC	CTCCTGACAG	CCCTGCAGGG	CAGGCAGTAA	CACTGCTTTC
63101	ATAGACAGGA	GGTGAGCGGA	AGTCAGGAAA	TACCCATCAG	AACACACTGC
63151	CACTTAGTCT	GAGTGTCCCA	ACCTGCACTT	GATGCTGATG	GCTTTTCATT
63201	ATCTTTAGGG	CCTTTTCCGA	ATTGGGGCTG	GGGCCTCCAA	GTTAAAGAAG
63251	CTGAAAGCTG	CTTTGGACTG	TTCTACTTCT	CACCTGGATG	AGTTCTATTCT
63301	AGACCCCCAT	GCTGTAGCAG	GTGAGCGCCA	AAGAGTGTCT	GCAAATCAAG
63351	TCACCCTCAA	GGCGGTGGGC	AGGTTCTGTC	TCAGACAGAT	GGTCAGTTAA
63401	AATCCAATTT	CAGTTACAGG	TTTAAGTGAC	AAAACCGAAG	TGGCTCTTGC
63451	TACAATTCCT	TAGTGTATAT	ACAATGTAAT	GTACACTGTG	TCTTCTTTAC
63501	TCCTTTTCTG	TTTTTCTATT	TTGATGATTA	AAAGAGAGAG	TAGCTTATAA
63551	TGCAAATATT	TGGAGACATA	TTTGTATTTT	CTTCCCATCT	TTACAGTCT
63601	CCCCCACCAC	AATTCCTTTC	TACCTGGAGA	AATTATGTCT	GTTAAGGGGA
63651	TGACTTTAAA	ACTAATTTTA	TTTGTAAATTG	ATCTCTTAAA	ACTTTTTTTT
63701	TTCAGAGATT	GAATTTGTTT	TATGAACATT	TTAGTCTCTA	ACAACCTCTG
63751	CCAACCTATG	ATTTGTTATG	TACACCTTGG	AAGATCGTTA	TTGAGATCAT
63801	TTCAATTTGC	AAAATAATAT	GTCCCAAGAT	TCCTAGCCTT	ACCCCTTTTT
63851	CATACCTCAA	GAGAGTGTTA	ATGATTTTCT	GTGCTTTAAA	ATCCTATTTA
63901	CGGGAATTGC	CTGAACCTTT	GATGACTTTT	AATCTGTATG	AAGAATGGAC
63951	ACAAGTTGCA	AGGTAAGTTT	AAAGAACACA	GAGTTGTAAA	TGTTAAAGGG
64001	AATGAAGTGA	TATTGTGCCC	TATTTGCAAA	TCATTTTATT	CTCAGGGATC
64051	ATAAGATTAA	AATAGCGTAT	TTGTTAAATA	ATACATGTCT	CAGCTCTTAT
64101	TTATGTTTAG	AATAAAAATA	TCAAGTATTA	TAATTATTAG	TGTAGGAAAG
64151	TCACCACGTA	GGCATTGGTT	TAAATTTGTG	TTATTTAGGT	GGATGAAGAC
64201	ATAGAGTGGT	ACCCACATTA	ATGGATTGTC	AAATTTCCAG	CCCCCTTTAT
64251	GTTGAAGAAA	GCCCTGTAAC	TGGGGATAGG	GGTCATACTG	ACCCGTGGCA
64301	GTGTGCCTTT	TGAGCTGTGT	GCAGTCTCAC	CTGTGCGATA	ATACAGTTGG
64351	CCTTTAAACA	GCATGGGGAT	TAGGGGCATT	GATACCCTAC	ATAATTGCAA
64401	ATTCAAGTAT	ACTTTTAACT	CCCTCAAAC	AACTAATAGC	ATACTGTTGA
64451	CTGGAAGCCT	TACTGATAAC	CTAGTCAATT	AACACATATT	TTGTATGTTG
64501	TATGTATTAT	ATACTGTATT	CTTACAATAG	ATAAGCTAGA	GAAAAAGTAC
64551	TATTAAGAAA	ATTGTAAGGA	GGAGACAATC	TGTTTACTAT	TCATTAAGGG
64601	GAAGTGGATC	ATCTTAAAGG	TCTTCATCCT	TGTCTTCATG	TCGAGTAGGT
64651	TGAAGAAGCA	GAGAAAGTGA	AGGGGTGGGT	CTTCCTGTTT	CAGGGGTGGC
64701	AGTTCATCTG	TGAGTTTTTT	CAGATTGTCC	GAGATCTCCA	GGAAATTTCC
64751	TATATGTTTT	TTGAAAAATT	TGCATATAAG	TGGACCTTGT	GTGTGCAGCT
64801	GTATAATGAT	GACATTAATA	TTTACTGAGC	ATTTTCTTGT	GCTAAGTACT
64851	GTGCTCATCT	TTGTAGCTAT	TACCTCCTGT	AATCTTTAAT	TAACGTTATA
64901	AAAGGCAGAT	GATGTTGTGA	TCCACATTTT	ACAGAGAGGA	AACTGAGGCT
64951	TGGGAGGGAA	CAGGGCCAGG	AGAGTAGCAA	GTAATTGGCA	GAGCTAGAAT
65001	TCAAACCAGA	CAGACCCAAA	TGCTATATTC	CTCTACTTCG	TCCCTTTCCC
65051	TCCACCCTCA	GCTTCAGTCT	GTCTAGGAAC	AGATGATTTT	AAGCAGGACA
65101	GCTTTGTTTT	AAAAGCCTAG	AGGCTTCTGC	TTGGCTGGCC	AGCCACCTC
65151	CTCGTCTTTT	TTCTCATGGC	GCTGACTCCC	CTCCTCTCCA	GAGTGCCTAC
65201	TCCTCACCAC	TAAGGGAAGA	GGAACAAATC	TCACCTCTGT	TCTGTCCTCT
65251	TCCCCGTCTA	CGGACACTGC	CCCTGTTCCC	TGCAGGCAGG	CCATGATCAA
65301	ATAAGAGCCA	CTTATTTCTG	ATCAGTTACA	CTTCAGTGGA	TGTGAGTCCA
65351	TCGCTTGTGT	CTTTAACCAG	GTTTTGCATT	TGAGCTTTTT	TCCTTTTTTT
65401	TTTTTTTTTT	TTGTGAGTTG	GAGTCCCCT	CTGTCGCCCA	GGCTGGAGTG
65451	CTAGTGGACA	GTCTAGGGTC	ACTGCAACCT	CCACCTCCCT	GGTTCAAGCA
65501	ATTCCCCTGC	CTCAGCCTCC	TGAGTAGCTG	GGATTACAGG	CGCACACCAC
65551	CATGCCTGGC	TAATTTTTTT	GTATTTTTTAG	TAGAGACAAG	GTTTCACCAT
65601	GTTGGCCAGA	CTGGTCTCAA	ACTCCTGACC	TCAGGCAATC	TGCCCTGCCTC
65651	GGCTTCCCAA	ACTGCTGGGA	TTACTGGCAT	AAACCACCGC	GCTCAGCCGC
65701	ATTTGAGCTT	TTCTCTGTAA	TTGTGGAATG	AGACTTTGTC	CCTGGTAGAT
65751	GGTGAGGTTT	TTAAGTTCAG	AGACAAGTTC	TTAGTCATCA	CGTATCCTTG
65801	GAACCTTGCC	TGGGGCCCAG	CCTGCTGTCA	GTATTAATGT	TTATGGGACA
65851	GAATTCAGTA	GAATCCAACA	TCAGTGTTAG	GTAGAAGAGA	GTTGTGGGAT
65901	TTCTTTTATT	GGCTAGCCTC	CTACCCAATA	AAAGATTTCC	TTGTTTATTA
65951	CAAGGAAATA	AACTTGTAAG	AGAAGGCGTC	TATCTGTTGG	TATATTGATT
66001	CTATAGTTGA	GAATTGTCAA	TATGGGTGGG	CTTCCATCCC	AGTAACACAT
66051	CGACTGGCCT	CTAAAGTGTA	ATTATGTTTA	ATCCCTATCC	ATGTTCTCCA
66101	GAATGGTTCT	GTTCTGGAGG	ATATTTACAG	TTCAAAGTGG	TGTTATAGAG

FIGURE 3, page 21 of 33

66151	GCCCCTTTAA	CACTCTTGGT	CCCTAGTGGG	CAGAGTTGGC	CGTGCTCTAC
66201	AGGCTCCTCA	CTGCCCCTTT	TTTATGTCTC	TGCAAGTTTG	TACGTTGCGC
66251	CTGTGGAGTG	CAAGAGCTCT	TACAGTTGCT	TCACAACAGA	AATGGGCTGC
66301	TTGATGTGCA	GCCAGTTTGC	AGTATTGCAA	GCGAGGAAAG	ACCCAGAGGT
66351	CTGGGTGCC	GGGAGCTCAG	CCCCCTGATC	TGTGGCTGGG	CTGCTTGAGG
66401	GTAGGAGAAT	TTGGGTTCTG	TAAAGCCATA	CGTCAGTACA	CACTTTTCT
66451	AGACAGAATT	TTCAGTAGTG	TCTTGTCTCT	TCTGTGCCAA	GCATTGGTGG
66501	AGGTGGTTTT	GTCACAGACG	CCTCAAAATC	GTTCAGCAGA	ATCAACACTT
66551	ACCCTGTTTT	GCACATCCAG	AGATTGAAGG	TTAACCAACT	GCGCAGAGTT
66601	AAACAGTTAA	TTGGTATTTG	ACTCTAAATC	TGTTTATTTT	CATAGCATGG
66651	GCTGTTTTCC	AACTGTGCTT	TCTCTGTCAA	AATGGAGGCC	TCATTTTAA
66701	CATAGCATAT	TAATAAGATA	ATTGGTGTCT	TAATAAGTTG	TTGTACTTAA
66751	AAGTTTTTGT	TCTCAGTGTG	CAGGATCAAG	ACAAAAAACT	TCAAGACTTG
66801	TGGAGAACAT	GTCAGAAGTT	GCCACCACAA	AATTTTGTTA	ACTTTAGGTA
66851	TGTATGATTG	AGCTACAATG	ACTCTGGAGT	GAAGATAAGT	TTAATGCCCA
66901	GCAGAGAAGT	CATTTAATTC	AGGCATACTT	GGCACAATAA	AAAACAACAA
66951	CAACAACAAA	AAAAACCACA	TCACTTTGGA	GAGTAACTTG	GGGCTACTGG
67001	GAATGGGATT	TCATGTATAT	TATGATGAAT	TTGAAGCATC	AGTATCATGC
67051	CTGACATTAA	TACGTAAGTT	GGCTTATCAT	TTTCCCACTA	CAGCTATTAG
67101	CAATAAATTT	CTTGTGAAAA	GTTTGAGTGA	CTGTATGTTG	GGTTTGAGT
67151	CCAAATCATC	CAGTATGTTA	AAAGGCCAAA	TTAATCAATA	ATTGTACATT
67201	CTGTAATGTC	TTTTATATAT	GCTACTTAAT	TTAAAGTATA	AATCATCTTA
67251	CTAAATAAAA	TTTCAAAGAA	TGGAGATTAT	ATATTGCTTT	GTGGAATAAC
67301	TGTGGTTTTA	AGAAAATTTA	CCATGGGACA	AAACTTCCAT	AATGTAACTT
67351	CTGTTTTCTT	TTTGACTTAA	TATGTAACTT	TGAACAAGTA	TAGAGAAAAG
67401	GAAAAAGTGG	CCTCAGGTGG	TAAAGTCACT	CAAAACCAAA	CAAAGAAAAAT
67451	TTTCTAGAAA	GTGCCCCTAG	AAAATTTTCC	TTGTTTGGTT	TTGAGTGACA
67501	TTAAGTGACC	AGTCAGAATA	GTTTACAGGT	GATATGCCTG	GAATGTTACT
67551	TGTCCTTAAA	TTCCGCCTTG	GGCTCTCCTA	CTAAGCTAAG	CTACATACTG
67601	CCTTTTAAAT	ATTCCCTTTG	ATTAATTTAA	CTCACCCACC	TTGGAATTAC
67651	AGATACTCTT	CCTCTATTCA	GTGTATATGG	TGAGAGCTCA	GTACTTCTTA
67701	GATGTTTGG	AGTTTGGCTC	TTTATTTTGT	TTATTTTACT	CTGTAATTGT
67751	TACTAATTGA	TTTTTGAATA	GGGAGCACAT	TCCCATGGTT	CAAAATTCAA
67801	ATGGTATACG	ATGAAAAATC	TCTCTCCTGT	TCCCATACCC	CAGCCACCCA
67851	GTTCCTCTCC	TGGGATGCAT	CCAGTGTTTA	CAGTTTCTTA	TATATCCTCT
67901	CAGCAAGAGT	TAATGTAGAC	GTAAGCAGAT	ACATTTCGTG	GTACATACTT
67951	GCCTGTGTGT	TTTTCTCTCT	ACACCCCTTT	TTTAAAAAAC	CAAAATGGTAG
68001	TGTATATTGT	ATACGTCATT	CTCCCCCTTA	CCTTTTGTGC	TTGACAGCTT
68051	AAGGTATTTG	CGTAATACAT	CTTGGAGATT	TTTCTTCTCT	AGTACATTTT
68101	GTAATGATGG	TAGCATAGTC	CTCCACTGTA	TGGATATACT	GTGATTTATT
68151	TAAGCAGCTC	CCTATTGATA	GGTTGTTCTT	ACGTTTGTGC	CTTTATATGA
68201	CTGTACTTAT	ACATAAGGTA	GGTATATATG	ATAAATTGGA	TATTTTTATA
68251	ATTCCACCAT	AAAGTGTTTT	CAAATACAGT	TTCTGTAAAG	CAATATAACT
68301	GTGTCTGTTT	TTGTATTTAA	AAATATTGAG	CTCACTATTA	ACACATTATA
68351	ACTTATAATA	GGGGTAGAAT	AGATAGGACA	TAAAGGAGAA	ATTGATTAGA
68401	AATATACAGC	CAATAGGGGT	TCAAATCACT	GAGATTTAGA	CTTAACCTAT
68451	TTTCTTCTTC	CAAGCCCTAA	TTAGTCTATT	ATCTGAAGCA	AAGAACACAA
68501	GAAATGTATA	AAATGCTTCA	CCTGAGCCAG	ATTCTGATTT	AGGAACCCTC
68551	TGCAGTTAGC	ACCTGAGCAA	ACTGGGATTG	TGCACCCAGG	CAGGAAGAGA
68601	ACATTCCAGC	AGCTATTTCA	GAGGAGAAAC	CCTCCCCTTC	TCTTTTGACC
68651	CCTAGATATT	TGATCAAGTT	CCTTGCAAAG	CTTGCTCAGA	CCAGCGATGT
68701	GAATAAAATG	ACTCCAGCA	ACATTGCGAT	TGTGTTAGGC	CCTAACTTGT
68751	TATGGGCCAG	AAATGAAGGG	TAAGTCATCT	TTCTCTGTAT	CATTTGAATT
68801	TCTTCTTTCC	CACCTGATGG	GATGCATAGA	AATGTAACTC	AGGTACACA
68851	TTCTAGTTTA	AGATCAATTC	AAGGTATTCT	GAAGTTGGTT	TTCTCATTCA
68901	GCCTATATTC	TTGGAACACA	GCTGTGAGCT	GGGTGCTGTC	CCAGCTGGTG
68951	GTGACACAAA	GATGTGTGAG	ACATTGTCCC	AGTTCTCAAA	ATGCCCTGTC
69001	TCTTAGGCAG	TCAGATAGCT	CAGTGGCTAC	AGTACAGTGA	TAAGAAAAAT
69051	ACACATATTT	ATGTGTGTGT	ATATATGATA	TTGTAGGAGG	GGTAGCACTT
69101	CCACCTCTTT	AGGGTGTCTG	GCTGGGCTTG	AGAACTAAAT	GGACATAAGA
69151	CAGGTTAACA	GGAGAAAGCA	TACAGATTTT	TACATTTTAA	TGCCCAGCAG
69201	AGAAGCCATT	TAATTCATGC	CTACTTAGCA	CATTAATAAA	AAAACACATC
69251	ACTTTGGAGA	GTAACCTGGG	ACTACTGGGA	ATGGGATTTT	ACGTATATTA

FIGURE 3, page 22 of 33

69301	TGATGAATTT	GAAGCATCAG	TGTCATGTCT	GACATTGGAG	TTCCCATAGG
69351	AAAAGGAAGA	TCCAAAGAAG	CAGGTGGAAC	TGAATGCTTA	TATATGAAGT
69401	TGGACAAAAA	GTAAATTGTG	AAAACGTGAC	CAGACAAAGG	AGCATGGGCT
69451	AGGGCAGTTA	GTTGTGGAGA	AGTGACTION	AAGATAAGGA	TTCGTTCAGC
69501	AAGGTTTGGT	TATGGAGGTT	TCCCTCAGCC	TTGCCTCCCC	GTCCTGGTG
69551	TTAGGAATGT	TTCTTTCCTC	CTGGTATAAG	GAGGGCATCC	TTACATGGG
69601	AGTTTATCTC	CTGCTTTCAG	GATGAAAAAG	GAAGTCGGA	GCCCTCTTCT
69651	TGCATGTGAT	GGTTTTCAAG	TGTCTTTAAC	TCAAAATAAT	CCTATGCCTA
69701	AGGAGCATAT	TTTGGGATAG	CGTATTCTGC	CCCCTTTATC	AAGTATGACG
69751	GCAGCAGAGG	TAAAGAAACA	TAATTCAGGC	TGAGAAGTCA	GGGAAAGCTC
69801	TGGTTAGGGA	ATGGCACTGG	AGCTGTACCT	TGATGAGTTA	ACAGTTTCGT
69851	ACAGCCAGGA	CCTGGATGGG	CCAAGACACT	GTTGAAAGGG	CCTGGTTTCC
69901	ATCGTTTATG	GGCATGTAC	GTGGCTTCGT	GAAACTTGAA	GACAGAGAAC
69951	ATGAGGCTGT	GACTGGGAAG	GCCAGAGCCT	TCAAGGGCCT	CACACATTGT
70001	ACTGAGGTGT	CTGGGACTTA	TTTTCTGGGT	GGTGGGGAGT	CATTCAATTAA
70051	GGTTCCTAAG	CAGAATAATG	TCTTAAGTTG	CACTTAGATA	ACTTTATTGG
70101	CATTGCAAAA	TGTAGATTGA	ATAGAGGAGG	GGTCGGGGGA	TCCGCTGGAA
70151	AGCTTCTGGG	AAATTGTCTC	TCTGTGGATG	GCATTGTGAT	GATCTCATTT
70201	AGTAATCAGA	AGTAACCTTT	TGAATAGAGG	ACATAAAGGA	GAAATTGATT
70251	AGAAATATAT	AGCAAATAGA	GGTTGAATCA	TTGACATTTA	TACTGTTGTC
70301	CTTGTTTTTG	CAGATGAGGA	CGCTGACTCT	TAGAAAGAAA	AAGTAATTTG
70351	CTTAAGGTCA	CACAGCAGGG	AACTGGTGTG	CCCAGGTTCT	GGATACAGAG
70401	CCTGTGTCCT	TATTAACCCT	TATTAGCTTT	CCAGTACTCT	CCTAAAAGAA
70451	AAATGGGAAA	GGATGGAGAG	GACAGTTCCT	CCCTAATCCA	GCAGAGTTTT
70501	AAGGCACACA	GACTGATCAG	ATTCCACATG	GGAGGAAGGC	TGGGAAGGAT
70551	CATTTACAGG	CAGAGCTTCA	ATTTTAAGCT	GGAATTTGAA	AGGAGCAAGA
70601	AATTTTACTT	GGTCGGAAAG	TGGGTGAAAA	TACTCTGATG	GGAAGAGAGG
70651	TCAGAGTGAT	AGGAGAGGAG	AGGTTTGAGG	CAGTCAGACC	TGGGATTGAG
70701	CTTGGGAACC	CAGTGTCCCT	ATGTAGCCCT	CATAACGGGT	TGTTGTAAAA
70751	ATTAAGCGAG	GTGAAGAACC	TGAAGCCTGG	TAGGTGGCCA	GAAAGTGTCA
70801	GGCCTTTTGG	AGGTGGTTTG	CTTTTGTGGT	GTTCTGACTC	TCAGCTGAAA
70851	CAGGACCTTG	ATAGCAGTGA	TAATAACTCT	TACTTTTTTC	TTCTTCTTCT
70901	TCTTCTTTCT	TCCTTTCTTT	TTTTTTTTTGA	GACAAGTTCT	CGCTTTGTTC
70951	TCCAGGCTGG	AGTGCAGTGG	TGTGATCATG	GCTCACTGCA	GCCGCAACCT
71001	CCTGGGCTCA	GGCTATCCTC	CAACCCAGC	CTCTCCGGTA	GCTGGGAATA
71051	CAGATGCATG	CCACCACACC	TGGCCAATTT	TTGTATTTTT	GTAGAGATGG
71101	GATTTCACTA	TGTTGTCCAG	GCTGGTCTTG	AACTCCTGGT	CTAACTGCCT
71151	CAGCCTCCCA	AAGTGCTGGG	ATTACAGGTG	TGAGCCACTG	CGTCTGGCCT
71201	ACTTATTTTC	TTCTTTTTTGA	GCCTTGGCGT	CAGACACTAT	TAACATCTGA
71251	ACACTCATCT	TGAGACTAGT	CCACATATAT	GATGACCTTA	CGTGTGAATG
71301	GGAGGCTCAG	GTTTCAACAT	AATAAAAGGC	ACATTTGCCA	GGCGCCGGTG
71351	GCTCAGCCT	GTAATCCCAG	CACTTTGGGA	GGCCGAGACG	GGCAGATCAC
71401	AAGGTCAGGA	GATCGAGACC	ATCCTGGCTA	ACACCGTGAA	ACCCTGTCTC
71451	TACTAAAAAT	ACAAAAAATT	AGCTGGGCGC	GGTGGCAGGT	GCCTGTAGTC
71501	CCAGCTACTC	GAGGAGCTGA	GGCAGGAGAA	TGGTGTGAAC	CCAGGAGGCG
71551	GAGCTTGCAG	TGAGCTGAGA	TAGCGCCACT	GCACTCCAGC	CTGGGCGATA
71601	GAGCGAGATT	CTGTCTCAAA	AAATAAAAAA	TAAAAAATAA	AAAAATAAAA
71651	GGCACACTGT	AACAATGCAT	GTTCTTGGTG	ATATCGTAGG	CAAAATTGCT
71701	TTTTAGTAAT	CTTTAGTCTT	AGAACATAGC	TACCACCCAT	GTGTGATGCT
71751	ATTCCAGTGG	GAAAGTGCAA	CCCTCTTTAC	AGACCAGTTT	AAAACCAGCA
71801	TTTGACACAG	CATTGTTGAC	TGACTGGTTT	TGCTGCCCCC	AGGGTCTGTG
71851	TGTAGCAGAC	ACTGTGGTTG	TTATCACAGT	GCACACTAAG	GAGCAGCCAA
71901	GCCAGAGTCA	TTTTTTTCTG	GGTGATCACG	GCCACATTCA	TAGACCAGGA
71951	CCATGTGAAT	TTGATTTTTT	TTTTTTTTTTT	TTGAGACAGA	GTTTCGCTCT
72001	GTCAC TAGGC	TGGAGTGCAG	TGGCCTGATC	TTGGCTCACT	GCAACCTCCA
72051	TCTTCCGGGT	TCAAGCGATT	CTCCTGCCCT	AGCCTCCCGA	GTAGCTGGGA
72101	CTATGCGAAC	GCACCAACAC	GCCTGGCTAA	TTTTTGTATT	TTTAGTACAG
72151	ACGGGGTTTC	ACCATGTTGG	CCAGGATTGT	CTCGATCTCT	TGACCTTGTG
72201	ATCCGCCCGC	CTCAGCCTCC	CAAAGTGCTG	GGGTTACAGG	TGTGAGCCAC
72251	CACACCCGGC	CAGTGATTTT	GATTTTTTGCA	TCTTTTAAAT	ATTTTATCCT
72301	TTAAAAATAA	TTGAATTGCC	CTGACACAAC	CAGAAGAAAT	TAGATGCTGC
72351	CTACAGGAAG	TATTTTAATT	TTGTGAACTT	GCTTTGCAGA	ACACTTGCTG
72401	AAATGGCAGC	AGCCACATCC	GTCCATGTGG	TTGCAGTGAT	TGAACCCATC

FIGURE 3, page 23 of 33

72451 ATTCAGCATG CCGACTGGTT CTTCCCTGAA GGTAATTCTC ACTTCAGTTT  
72501 CATTGACCGC CAAAGCAATG TGATAATCGT ACAAAGATC TTCTTAAGAG  
72551 AATACATCTG TAATCCTTCT TCATGATTAC GTAATTGGTT TCACTTTTTT  
72601 ATGTTTCTTT CCAGCCTTTG TTCATTGCAT TTGTATTTTG ACATGATGGT  
72651 AATCATATTG TATTGTATTT CACTTAGTTT CACTAAAACA TAGCCAGTCA  
72701 GTGTATGTTG AATACCCACT GGGTGCCATA TGTTTGCTGG TGAACATGC  
72751 CGTCTTACCT GGGGGAACCT CGGCCACTGG AGAAGATGGC CACATGAACA  
72801 GATAAATTAT AACACAAGGC ACATTAGAAG ATAGGTGGAT GGAGAAAGAT  
72851 TTGACAAACT CAAGTGCTGG GAAAAGGGAA CCAGGGATTG GTTTTTAGAA  
72901 GAGGCGATGT TGAATATGCT GGAGTTTTTC ACTTGAAGA GGGCTTGTTT  
72951 CTCTAGCTAG ATTATGGATT TGCCCATAGA TAGGAGATAA AGCAGGAAAG  
73001 GTTGATCGGG GCCAGCTGGT GAAGGCCTGA GTTGGCTGTG TCAGGGAATT  
73051 AGTATTTTCT CCTGCTGGCA ATAGATTTTC AAAGTAGGTT TGTTGCAGTT  
73101 CTGGGATCCA CAGAGGTTCC CATGGCCCCC TTTGGGGATG CTGGCCAGGC  
73151 AAGTGTGGGA ATTCCGGATC CCCACACCT ACTTCCCCCA GAGCAACCCT  
73201 GCTGCCATGT CCCGTGGGGT GCAAGCCCCA TGATACCCAT CTTCCCTCA  
73251 CCACTGAGCC CATCTTTTCT TTACCACTGT TTTGTCACCA TCAGGAATCA  
73301 CGCCTCATTC ATATAGTTG CCCAGTGAGG ATGGGATGGA TGAGCGAATG  
73351 CTAGCATTCT GCTCAAGGTT TCCTTTGAGG AAATGATTCT TGCAAAACT  
73401 GCTAAAGGCA GTATGAACCT GATGTTGCCT TTTATTTCTA TTTTATATTA  
73451 AAGTGTAAT ATCTCTCTTT TTTTTTTTTT TTTTGAGACA GAGTCTTGCT  
73501 CTGTGCCCCA GGCTGAAGTG CAGTGGCGCG ATCTCGGCC ACTGCAACCT  
73551 CTGCCTCCCA GGTTCACGCG ATTCTCCTGC CTCAGCCTCC TGAGTAGCTG  
73601 GGAATACAGG CATACATCAC CATGCCAGC TAATTTTTTG TATTTTAGT  
73651 AGAGACGGGG TTTCACGTTT TTGGCCAGGC TGGTCTGAA CTCCTGACCT  
73701 CAAGTGATCC GCCTGCCTTG GCCTCCCAA GTGCTGAGAT TGCAGGCATG  
73751 AGCCACCACA CCCAGCTAAA TGTCTCTTTT TGAATGATTA AATAAGTGAT  
73801 CTGTGCTCAT CGTCTCTTTC TACATTCTAG ATTTGTTTTT ATTTATTTTT  
73851 TTTCCACAAA AGAGAAAGCA CAAAAGTGTG TAACTTATAT TCTGACCCAT  
73901 ACTTCTTCCC CTGTCTTGTC CTCTTAACAT TACTTCCCAC TGGTTTGATG  
73951 GACCAATCTT GCGATGTGAG TGCCTGGAGC TTCCACTTTG AAATAGTGAG  
74001 GGCTGTGGAC TGAAGAACGA GGTTCCTGTT CCAATGAGGG GTGTCTTAGA  
74051 GCTCCCTCGC CTGCTGTGCT CAGTGTCTCA TGCCTTGTT TATTTTTCCT  
74101 CTTGCAGAGG TGAATTTTAA TGTATCAGAA GCATTTGTAC CTCTCACCAC  
74151 CCCGAGTTCT AATCACTCAT TCCACACTGG AAACGACTCT GACTCGGGGA  
74201 CCCTGGAGAG GAAGCGGCCT GCTAGCATGG CGGTGATGGA AGGAGACTTG  
74251 GTGAAGAAGG AAAGGTATGA TTTGACCGTT CACTTCCAAA CCAGCAGTAA  
74301 ATATGTTGTT AGACCCGTGG TATCTGGTAT CGCTCAGTGG ACTTGGGATT  
74351 TGAGAGTGGT CGCCATCCAC CCATGACTGA TGGTGTCCAG ATAGTTTCTG  
74401 GAATCTGCT GTAGGTCATT CCAAGCACTA ATCTCACCAT AAAGTCAGTG  
74451 TGTAGCTTCT CAGTTAACGT TTCTTCCACG TGTATTCCAG CTTAACTTGG  
74501 TGGTGTGCTT GGTAAGCCCT GCAGTGGAAC GGCATCATAC ACATGTTAAA  
74551 AGTGACCCAG ATGTACGTGA GTGGGGGGAA ACAGAAAGGA AAATAAATTC  
74601 AATAGTGTGG ACTTTTGTC AGAATTGAGT GTGAGAACAC CCACCTGGCA  
74651 CAGTGAGTTG AGTGATTTGG CGTTTAAGGA GACATATTTT TGGTATAATG  
74701 TGGCCCCACA ATGGAAGCCA ACCACTGAAT TTGATGTTCA GTGGGAAAAA  
74751 CCTCAGTATT TGCCAATTCT AGAAGAAAAA AAAATGGCAG TGTGAACTT  
74801 AGTGAGAAGC AGTGTGTCTC TATATACTCT TTTCTATGGG CAATTCATGG  
74851 GATTTTCAAG GGTGATTAAG ACTGTTTGTA ATTTGTGCCT TTGGATGCCA  
74901 ACCTGTCCCA TGTGTGTGAT GAAATGCCAC TGTACTCACT AGGAATGCTA  
74951 ACAGTTAAGA GGCCTGTTGG AAGTAATATG CTTTTCTTGG TATATTAAAT  
75001 AATACTACTA GAAATAGTTT TACATTAAAA CGAAGTGACA AGCTCTTATT  
75051 TTAATTGCTC AGTCTTATAG TGAGGTGTGC TGTGTTGTTT TTGTTCTTTG  
75101 TATTGCATTT TTTACCCCTA GCAAAGGAGA ATGCATTATT CTGTCCCTAT  
75151 TCTGTCTTTC CAAAATCCAC ATTTATTCTA TGCAGACGTA TTACCTCTCT  
75201 GAACCTCAT TCATACATTC AGTAGTATTT CCTGATGACA GACTCTACCT  
75251 GTAACAAAAT TAGCTTTTCT ATATTTTAAG TTACAGAATA CAGTGCATGA  
75301 GTCTAGTTAG CACGTGACAG ACAATTCTCA GTTACCTGCC TTGTGTATTC  
75351 TCCCTGCCAG CTGACCCAGT AAGCACGAGC TCAAGAAGCC AGGTATCTTT  
75401 TTACTTTTTG AACTGAAAGA AAAAGTTGTT AAGTTCATAG ATCAGTCGCC  
75451 TTAAGTGAAA AGTCAGCCTT CCTTCCACCC TCTCCAGCCA CATCCAGCCA  
75501 CCATTCCTTT CCCCAAAGCA ACGGCTTTTT CCAGTCTTTT TGGTTTTTGT  
75551 TTTTTTGAGA CAGGGTTATG TGCCCAGGCT AGAGTGCAGT GGTATGATCA

FIGURE 3, page 24 of 33

75601 TGGCTCACAG CAGCCTTGAC CTCCTGGGCT CAGGCAGCCC TCCCACCTCA  
75651 CACACCTGAC TAGCTGGGAC TATAGGCACG CACCACCTCA CGCAGCTAAT  
75701 TTTCTAAAAA AATAGTTTTT TGTAAGAGACA GGGCCTCACG ATGTTTCCCA  
75751 AGCTGGTCTT GAATTTCCAA GCTAAAGCGA TCCTCCACC TTGTCCTCCC  
75801 AAAGTGCTAA GATTACAGGT GTGAGCTACC ATGCCAGCT TTTCCAGCCT  
75851 TATGTACCTT TCACATGTAG TCTGCATATG CACATAGGAT TGTTTCTACA  
75901 TCTCATCTCA GTTAAGAGGC AGTGTGGTGT GATAACCTTA CACTGCCATT  
75951 GGTAGGCCTT CTGGACTTGA CTTCTGTGTC ATTCCCAAAA AACAGATTTG  
76001 AGATGGGAAC TAGGAAGTAT GGAAATAGGC CGGATGTGGT GACTTATGCC  
76051 TGTAATCCCA GCACTTTGAG AGACCAAGGC AGGAGGAATA CTTGAGGCCA  
76101 GGAGTTTGAC ATCAGCCTGG GCAATGTAGT GAGACCGCAT CTCTACAAAA  
76151 AAAAAATTTT TTTTAGTATC CCAGTATGGT GATGTGTGCC AGTAGTCCAA  
76201 GCTGCTCCAG AGGCTGAGGC TGGAGGATTG TTTGAGCCCA GGAGTTTGGC  
76251 ACTGTAGTGA GCTATGATTG CTCCACTGGA GTGCCAAGCA CTCCAGCCTG  
76301 GGTGGTGGAG TGAGACCACA TGTCTAAAGG GGGAAAAAAA CAGCAGAGGA  
76351 AGTATGGGGA TAAACACACT AACATGATGT CATTCAAGAT GAGGCCTGCC  
76401 TATTTGCTTT TAGCTGCTCA CACCCAAATT GATCAAAGAC ATTGAACAGT  
76451 ACCAGGTTCA TTGGCTTTGC TCAGGCTTGA AGCCGAGTGG AGTTGCTCAG  
76501 GGGTGGCCAT TAGTCTGGTC CTTGCCGCTT CACTGCATGC CGGGCAGCTT  
76551 GGGTGGCTAT CCCCATGTGT GGTTTTAACA CATGTGGACC GATGGGCTTC  
76601 TGTCTCAGTA GTCTGCTCGC ATGGTGTGTT GACTGTTTCT TCTCTCTGTG  
76651 TAGCTTTGGT GTGAAGCTTA TGGACTTCCA GGCCACCCGG CGGGGTGGCA  
76701 CTCTAAATAG AAAGCACATA TCCCCGCTT TCCAGCCGCC ACTTCCGCCC  
76751 ACAGATGGCA GCACCGTGGT GCGCGCTGGC CCAGAGCCCC CTCCCAGAG  
76801 CTCTAGGGCT GAAAGCAGCT CTGGGGGTGG GAACTGTCCC TCTTCCGCGG  
76851 GCATACTGGA GCAGGGGCCG AGCCAGGCG ACGGCAGGTA AGGAGGCTGA  
76901 CTTCTGCTGG CAGTGGAGGC TGGACGCCCC AGCCTTCTTG CAGGTGGTGG  
76951 CCTTTGAGCA CGGCATCCAT GCCCAAAGAA CTGCTCCAGC ATGGAGTGAA  
77001 CAGATTTACT TTCACTCCTC TGGTTGGCAA AAGATGAAA AAAAGACTAT  
77051 GAATGGCTCG CTTCTTTTTA TGTTTTCCAA AGAAAGCAAC ATTGGTTTGC  
77101 ATTTCTTTGCC ACACTGCTTT GGTGCTGGAA ACCGGAAGCC AGTGGATGTC  
77151 TCATAGTGTG ATGAGCCTCT GTCACCTGTT GGATGTATAC TGTACAGATT  
77201 CATGTACCTT CTGTTTATTG TCATCCAGTG TGCTAACCAG GAAGCATTTG  
77251 AGTGTGGCAA GTTAGTTAAA TTTTCGTATT CCTGGCATT ATTACCCAT  
77301 TCGTTGATTG ATTCAGTGAA ACAGATTAC TGAGTCACTG ATATGTGCTA  
77351 GGCACATGAG GTGACTAAGA CTCCACTCCA CACCCCCAGA TTTCACTCTT  
77401 GTAGGGCAGT TGATCCATGA GTCCAAGGTG GAAAATAAGA TGGTAGCTTT  
77451 TCTTTTTTCT TTTTTTTTCTG TTTTTTTCTG AGACTGCGTC TTGCTCTGTT  
77501 GCCCAGGCTG AGTGCAAGTG GCATAATCGT AGCTCACTGC ACCCTCCGCC  
77551 TCCTAGGCCC AAGCAATCCT CCTACCTAAG CCTCCCAAGT AGCTGGGATT  
77601 ACAGGTGCTT GTCACCATGC CCAGCTAATT TTTTTATTTT TGTAAGATG  
77651 GGGTAAACAT AGATGCCCTA GGTGCCCCAG GCTGATCTCG AACTCCTGGC  
77701 CTCAAGTGAT CTTCTGCCT CAGCCTTCCA AAATGCTGGG ATTACAGGCA  
77751 TGAGCCACCA GGCTAGCTG GTAGATTTT TAAAAGGCT CTTTTAGTTG  
77801 CTTAACCTTT TGAATAAGCCA CCTGGAGTGG GCTGCAAATG GATAGCAACT  
77851 TTTAAGAAAA GTCACCTTGA ACTTGAGGTT TTTTTTTTGG AGACAGTCCC  
77901 ACTCTGTGCG CTAGGCTGGA GTGCAGTGGT GCAATCTCGG TTTACTGCAA  
77951 CCTCCGTCTC CCGGGTTCAA GTGATTCTCT TGCCTCAGCC TACCGGAGTA  
78001 GCTGGGATTA CAGGCACACA CCACCATGCC AGGCTAATTT TTTTGTATTT  
78051 TTAGTAAAGA CAGGGTTTCG CCATGTTGGT CAGGCTGGTC TCAAACCTCC  
78101 TGACCTCAGG GTGATCCCC CTGCCTTGGC CTCCCAAAGG CTGGCATTAC  
78151 AGGTGTGAGC CACCGCGGCC CAGCCATAAC TTGAGATTTT TATTTAATTG  
78201 ACATTAATTC AGTTCTCCAC ACTGATCCAG GCAGATGACC ACCAGAGGCT  
78251 ACTTCAGGTG GCATCTCTTG TGGTTTGAA CTGACAGCTG CTTAGCTTTG  
78301 CATACTGTG TGCCAAAATT TTTGTTGTCA TATGTTCTGC ATTTGGCCATC  
78351 CACAACACAC CGAATGATCA TATATGAAGT AAAATAAATG TGCACAAAAC  
78401 AAGGACAGGC TGTATTATCCA CACGTTTATT TCCCACACAG AGAGATGAAT  
78451 TTGCCTTGAA AGAACTCCTT TCTCATCGTC CTTGGGATGA GCAAGGGAGA  
78501 GCCTTGTTGT GTGTGAAGCT GCTCGTGAGA TAGGAATCTT GTTTCACCAT  
78551 TAAAAGTGA TGCTGAATGC TTTGTGCATT CCTGAATTCC ATTTTCTTCA  
78601 CCTTGGGAAA GTTTACTTTG GGGTTAAAAA AAATTAAGAC TTCAGACTTC  
78651 TTAGGGCTTC CCGTGACCT CATAGGCTGC ACGTTAGCTT GTCAATAATT  
78701 GTGCCCTATG CATGTACTTG TTTTGGTTTA AATTTTTTTG TTTGAAGGAA

FIGURE 3, page 25 of 33



78751	AAAAGTCTAA	GCAAATTCAC	TTATTTTCTT	TTTCTTGGTT	TGTTTTTTTA
78801	TTTTTATTTA	TTTTTATTTA	TTAATTTATT	TTTTGAGACG	AAGTCTCGCT
78851	CTGTTGCCCA	GGCTGGAGTG	CAGTGGTGCA	ATGTTGGCTC	ACTGCAACCT
78901	CTGCCTCCTG	GGTTCAAATG	ATTCTCCTGC	CTCAGCCGCC	GGAGTAGCTG
78951	GGATTACAGG	CATGGACCAC	CATGCCCTGGC	TAATTTTTGT	ATTTTCAGTA
79001	GAGATGGGGT	TTCACCATGT	TTGCCAGGCT	GGTCGCGATG	TCCTGACCTC
79051	AAGTGATCCA	CCTGCCTTGG	CCTCCCAAAG	TGCTGGGATT	ACAGGCGTGA
79101	GCTACTGCCC	CGGCCTGTTT	TTTGTTGTTT	TTTTTTTTTC	AGACAGGGTC
79151	TTGCTCTGTC	ACCCACGCTG	GAGGGCAGTG	GTGTGATCAT	GGCTCACTAC
79201	AGCCTTTTAA	TCTCCCAGGC	TCAAGCGATC	TTCCCACCTC	AGCCTCCCAA
79251	CTGGGACTAT	AGTAGTGCAT	CCCCATGCCC	AGCTAATTTT	TTTAAATTTT
79301	TGTAGAGAGG	AGGTCTCACT	GTGTTGCCCA	GGCTGGTCTT	CAATCCTGGT
79351	CTCAAGCAGT	CCTCCCTCCC	TAACCTCCCA	AAGTGCTGGG	ATTACAGGCA
79401	TGAGCCACCA	TGCCCAGCCA	ATTTACATAT	TTTCATTTAC	CTTGTGACAT
79451	TCCATTTGTT	TAACAAGGCT	AAATGTATTA	TTAAGACAAT	AATTAGTCTT
79501	AATGCAGAAG	GACAAATGGA	ATGTCAGTTA	CTTTGCTTTT	TTTTTTTTTG
79551	AGACAGCATC	TCGCTCTGTC	AGCCAGGCTG	GAGTGCAGTG	GCATGATCTT
79601	GACTCACGGG	AACCTCCACC	TCCTGGGTTC	AAGCGATTCT	CCCACCTCAG
79651	CCTCCAGAGT	AGCTGGGACT	ACAGGCATGC	GCCACCACGC	CTGGCTAATA
79701	TTTGTATTTT	TAGTAGAGAC	GGGGTTTCAC	CTTGTGGGCC	AGGCTGGTCT
79751	TGAACTCCTG	ACCTCAAGTG	ATCCATGTGC	CTCAGCCTCC	CAAAGTGCTG
79801	GCCTTACAGG	CGTGAGTCAC	TGTGCCTGGC	CTGCTGTTTG	TTTTTTATAC
79851	TGTATTCTGT	AGGTATTTTT	ATGTACATTA	CACTAATGTT	ATTCACTCTT
79901	TGGTGACCTT	GACAAAATGG	AGCTACAGAG	TTTGGTATAA	AAAGTTCTGG
79951	GCCAGGAAAC	AGGAAGCCTG	AATTCTGATC	TCTATCCTGC	TGCTACCAAC
80001	TCTGGACTTC	GAGTAGTCAT	TTAGCCTCTG	AGTTCTCCTT	CTTCAGTCCA
80051	AGTTATTGAT	AATAATCAAG	CCCTTTATCA	TTTAGGGTCT	TATTTTGCCA
80101	TGGCTTTTGC	TTAGTTTTGT	ACAGTGTATA	TGTCAACATG	TAAAAGCCAT
80151	TTCATGGTAT	TAAGTACTGC	CCAATTTAAG	TCCAAACGCA	GTAGAACTGA
80201	AAACTCCGCA	TTGGTTGCTT	TGAAATGGTC	TCTCTGATGA	TACTGGAGTG
80251	GCAGAGTCGT	TGGAGTCCAG	TCTGATGCAA	CGAATCTCAT	AAAAATAATA
80301	GTCCATATAG	CCCGGCTACT	CAGGGTGCTG	AGGCAGGAGA	GGATTGCTTG
80351	AGTCCAGAAA	TTTGAGACCA	ACCTGGGCAA	CATAGCAAGA	CCTCATCTCT
80401	TAAAAAATAA	ATGGCACCAA	GTAACATTA	GCTCTTTATA	TGGCACCAAG
80451	TAAACATTAG	CTTTATAAGC	CCAGTGTGAG	CTAGTTAGAA	TTTCAGATCC
80501	TTTTCTCTGC	TGCCGAAGTG	AAAACCTCTG	TTGGAATCTT	ATGTTTTATG
80551	TGCAGTATGT	TCAGATTTTC	TAGCTGGGAT	TGCTGACGT	CTAACTTGAC
80601	TTTTTACTCT	CTTAGTCCTC	CCAAACCGAA	GGACCCTGTA	TCTGCAGCTG
80651	TGCCAGCACC	AGGGAGAAAC	AACAGTCAGA	TAGCATCTGG	CCAAAATCAG
80701	CCCCAGGCAG	CTGCTGGCTC	CCACCAGCTC	TCCATGGGCC	AACCTCACAA
80751	TGCTGCAGGG	CCCAGCCCGC	ATACACTGCG	CCGAGGTAAG	CAGCCACCGT
80801	CCTCCTTGCC	CTCAGGGAAG	CCTGTGCAGA	CCTCCTTAAG	TTAGTGCAAG
80851	GATTCAGATG	GTGAGGTTTG	TGGCCAGATC	TTTTCTATGT	CTGTTGTAAA
80901	ATCCCAAGCA	GAAAATTTCAG	TCATTCAAGA	GAAAAGTCAT	TAAAGAAAAA
80951	GGAAAAAATA	GAGAACAGAA	AAGCAGACAT	TTAGTTTTC	CTTAGGCGTG
81001	ACAAAGCTTA	ACAAACAGTC	AGTTCTGCAG	AAATGCTCCC	AGTTTTCTCTG
81051	GTGTCCCAAG	CCCTCGCTCT	GTTTGAGAC	TACCACAGCC	TCTGTACTTC
81101	TCAGCTTTGT	GGGTCTGGGA	GGCACTTTTG	CTTCGGAATT	GGGGTGAAGG
81151	CTTTCTAGGT	CCTGATTAAC	AGAATCTGAA	CTGCTCCCAC	CTGTCTTCCC
81201	TGCAGTCCTC	CACCCAGCAG	CCAGGGGAAT	TGCTTTAAAA	CTCCAAGCAG
81251	ATCATGTCTG	CTCTTGTTA	AACCTTTCAG	TGGCTTCCAT	GCGAACTTCT
81301	CACCTTGGGT	TCTCTGTGCT	TTGGTGGGGC	CTACCTCTGA	GCCCAGAGCT
81351	TACACTCCCT	CCTCTCAACA	CACTCCACTC	TTGGTTCCCT	GAATGAACCTA
81401	AGTTTCATCCC	CTCCTTAGGG	CTTCCAGAAC	ATTCTGTCCC	ATATCTTCAC
81451	ATGGTTTCTT	CTTACCATTTC	AGGTCTCACC	TCAAAAATCA	CTTCTTCCAG
81501	CTGGGCGTGG	TGGGCTCACA	CCTATAATCC	CAGCACTTTG	GGAGGCTGAG
81551	GCAGGAGAGT	CGCTTGAGGC	CAGGAGTTGG	AGACCAATCT	GGTCAACATA
81601	GTGAGAGCCC	ACCTCTACAA	AAAAAATTTT	AAAAATTATC	TGGGTGTGGT
81651	GACACACACC	TATAGTCCCA	GCTACTCAGG	AGGCTGAGGC	AGGAGGATCA
81701	CTTGAGCCCA	GGAGGTCGAG	CCTGCAGTGA	GCTATGATTG	CACCACCGCA
81751	CTCCAGCCTG	GACAACAGAG	TGAGACCCCA	TCTCTAAAAT	AAAAAGAGA
81801	GGCCAGGCGC	AGTGGCTCAC	ACCAGTAATC	CCAGCACTTT	GGGAGGCCGG
81851	GGTGGGTGGA	TCACTTGAGC	CAGGAGTTCA	AGCCTGGCCA	ACATGGTGAA

FIGURE 3, page 26 of 33

81901	ACCCCATCTC	TACTAAAAAT	ACAAAAATTA	GCCGGGCATG	GTGCTTGCAC
81951	GCCTGTGGTC	CCAGCTACTC	AAGAGGCTGA	GGCAGGAGAA	TTGCTTGAAC
82001	CTGGGAGGCA	GAGGTTGCAG	TGAGCCAAGA	TTGTGCCACT	GCACCCAGC
82051	CTGGCCAACA	GAGCAAGACT	CTGTCCCGAA	AAAAGAAAAA	AAAATGGATT
82101	AAATTCACATG	TGTCTGTCTA	TAGAAGCATG	GTCTTTACAA	AGCACTACAC
82151	AAATGTTAGT	GGAATTTCTA	CAAATCATAG	GCAGGGAGGC	AAATCCGAGT
82201	CCACTGCTTG	GTTGCAGACC	CCCACCTTAT	TCTTCTTCAG	GCTGCCTCTC
82251	TGGGCCCTGT	CATCTTATCA	GGATCTCAGC	TGATCCTTGA	GGGAAGTTAG
82301	TCTTCTGGAC	CTAGATTCCA	GGTGTGACTC	TGGTTTTGGA	TTAAGAAGAC
82351	TCTTTTCCTT	ATAGCCGCAT	TCAGAGTCTT	TCATGCTTCC	CGAAATCACA
82401	GCTCCCAGGC	TTCTTCGCAG	GATGGGTTTG	ATTCTTTTTT	CCTTCCCCAC
82451	CCCCTGCGCC	TCTGAGGTGG	TCTCAGACAA	GGCCTCCATT	TCTCCAGGCC
82501	CCCTCCCCCT	GACACTTTCG	TCCCACGCTC	CCTCTCCCCA	TCCTCTTCAC
82551	ACCCTTAAAT	TTCAGGAACG	AGCTTTTATT	CAGTATGACT	TTACAATTAG
82601	TATTGCTTAG	AACAGAAAAC	TAGACTTTTT	TTTTAAATGC	CGATGGCAGT
82651	CTGGAGTACA	GCTAATGTAA	GCTGGTTGGT	GGTTTCTGAG	TTCCAGGGTT
82701	GAAAGTTCCA	GACCAGTGTA	GCAGAGTAGA	CTTTACCCTT	TTTTCTTTTT
82751	TTTTTTCCTT	TCTTATGTTT	TTTAGAGGCA	GGGTCTCGTT	TTCTCACCCA
82801	TGCTGGAATG	CAGTGGCGTG	ATAATAGCTC	ACTGCATCCT	CCAGCCACTG
82851	GACTCAAGTG	ATCCTCCAC	TTTGGCCTCT	CAAAGTGCTG	GTACTACAGG
82901	CACATGCCAC	CATGCCTGGC	TGCTTTATTT	TTTTGTAGAG	TCGGGGTCTC
82951	ACTGTGTTGC	CCAGGCTGGT	CTTGAGTGAT	CTTCCTGCCT	CAGCCAGTCA
83001	GAGTGCTGGG	AATACAGGCA	TGAGCCACCG	AGACTTTACC	CTTTTCAATC
83051	CTGAATTCGT	GGCCCTGTAA	ACAGGCAGCC	GGGGAATAGG	GGAAGGAGGA
83101	AGAGGAAAAA	GCATTTCAGG	AGTCCACATG	TCATGGGCAG	GAGTCTCAGT
83151	TCTGCCCTTT	ACTAGCTGTG	TGACCTATTA	CCAAACACTG	GCCCTCTTCA
83201	AGCCTCAGTT	TTCTTCTCTG	TGAAAATGGG	GATAACAGAG	CTTGCCCTGC
83251	AATGAGCTTA	TGAAACTTGA	ATGAGATAAT	TTATATAAAT	TATAATGTGC
83301	ATAATTTATA	TAAAAGGCCT	TACTTGGTAC	TGGTGATAAG	AGTGATACAT
83351	GTTCAATTTCT	TTCTTTCATT	TCCTTCTCCT	TCTTTCCTAG	AGAACCAGTA
83401	GGATCTTAGC	AGAGTTTGAA	AAAGGCTAAA	ATCTCTCCTT	TCCCCCTACC
83451	CCTCCAGCC	CAAAACCAGA	GCCCCAGATC	TGTTGTTTTT	CCTCCTGCC
83501	TCATCAGTCC	CAGGTTTCCTA	TCCCTGATCT	CAGCTGGTGT	AGGGAGGAGA
83551	GTGATGTGAT	TCAGCTCTCT	TTAGAGAAAT	AATTCTAAGG	CAACTCTTCC
83601	AGATTTATTC	ATGCTTTTGT	CCAGGACATA	TCTATTAACT	CAAATGGTTG
83651	CGGAATTGGT	AGAAATTCCTG	TTATTAAGAC	CAATCAAACC	AATCAAACCTC
83701	TCAAGGAGAA	GGTGGCTTGG	GATCAGGGGT	CATGTTATAT	CAGGGTGAAC
83751	TAGTCATGCT	TGGTGGTCCC	TCCTGGCTGT	TCTGCCTCTT	TCTGCGTCTT
83801	CCCATGGGCT	CCTAATGAGG	AGGCTGCTAA	GTGGGCTGAG	GGCAGCACTT
83851	CCGTGTCATT	GGGGTGGCCT	CTGTTAACAG	TTTTCTTCTT	ATTGAACCTT
83901	CAAAACGATA	GGCCTTTTAA	GCCCTTTCAA	ATGTGCATAA	TGTACTTAAT
83951	TTTTAAAATA	AACTTGTTTG	TTTGAGATAA	TTTTGAATTT	ATAGAAAAGT
84001	TGCAAAGATA	ATGCTGAGAG	TTCCCATATG	CCCCTTACTC	AGTTTCCCCT
84051	GTTGTTAATG	TGTTACATGA	CCATGGCACA	TTTACCCAG	CTCAGAAGTC
84101	AACATTGGGC	TAGTCCCCC	ATCCCCCCTA	ACTTTTTTTT	TTTTTTTGAA
84151	ATGGTCTCAC	TCTGTTGCC	AGGCTGGAAT	TCAGTGGTGT	GATCACTGCA
84201	GCCTTGACT	TCCCAGGCTC	ATGGGATCCT	CCCACCTCAG	CCTCATGAGT
84251	AGCTGGGATT	ACAGGCGCAT	GCCACCACGC	CCGGCTAATT	TTTGTAGTTT
84301	TTTGTAGAGA	TGGGGTTTTG	CCACGTTGCT	CAGGCTGGCC	TTGAACTCCT
84351	GCACTCAAGT	GATCCGCCTG	CTTTGGCCTC	CCAAAGTGCT	GAGATCACAG
84401	GCGTGAGCCA	CTGCACCTTG	CGGTTCAATTA	CCATTAACTA	GACTCCACAT
84451	TTTGTTCAGA	TTTCCCTAGT	TTTTCCACTC	ATGTCCATTT	TCTGTCCCAG
84501	GATCTCATCC	AGGAGCCAC	ATTATATGTA	GTCATCGTAT	CTTCTTCGTC
84551	TCCTGCTGTC	TGTGACATGT	TCTCCGTCTT	TCTGTGCTTT	TCTATGGCCT
84601	TGATGTTTTT	GGAGAGTACT	GGTCAGGCAT	TTTGAAGAAA	GGCCTTCAAT
84651	TTGTGTTTGT	CAGATGTTCT	TCTGATGGGT	TATGGGCTTT	GGGGAGGAAG
84701	ACACAGTGTG	TGCCCCCTCT	GACCACCTCT	CATCAGAGGT	ACATGATGCT
84751	GGTGTACCTT	ATTACTGGTG	ATGTTAAATT	TGGGCTCCTG	GCCAGGGTTG
84801	GTTGTGCGCT	CACTGTTCTT	ACTGAAAGGT	GTTTTTTCTC	TTTTTTGTGCA
84851	GCTGTTAAAA	AACCCGCTCC	AGCACCCCG	AAACCGGGCA	ACCCACCTCC
84901	TGGCCACCCC	GGGGGCCAGA	GTTCTTCAGG	AACATCTCAG	CATCCACCCA
84951	GTCTGTCACC	AAAGCCACCC	ACCCGAAGCC	CCTCTCCTCC	CACCCAGCAC
85001	ACGGGCCAGC	CTCCAGGCCA	GCCCTCCGCC	CCCTCCAGC	TCTCAGCACC

FIGURE 3, page 27 of 33

85051	CCGGAGGTAC	TCCAGCAGCT	TGTCTCCAAT	CCAAGCTCCC	AATCACCAC
85101	CGCCGCAGCC	CCCTACGCAG	GCCACGCCAC	TGATGCACAC	CAAACCCAAT
85151	AGCCAGGGCC	CTCCCAACCC	CATGGCATTG	CCAGTGAGC	ATGGACTTGA
85201	GCAGCCATCT	CACACCCCTC	CCGAGACTCC	AACGCCCCC	AGTACTCCGC
85251	CCCTAGGAAA	ACAGAACCCC	AGTCTGCCAG	CTCCTCAGAC	CCTGGCAGGG
85301	GGTAACCCCTG	AAACTGCACA	GCCACATGCT	GGAACCTTAC	CGAGACCGAG
85351	ACCAGTACCA	AAGCCAAGGA	ACCGGCCAG	CGTGCCCCA	CCCCCCAAC
85401	CTCCTGGTGT	CCACTCAGCT	GGGGACAGCA	GCCTCACCAA	CACAGCACCA
85451	ACAGCTTCCA	AGATAGTAAC	AGGTAAGTAG	GACATCAATG	CCCGTATTTT
85501	CTCGTCTGCT	CTACATTGCT	TTTGTACTAC	TACATTTTAT	TTAAGCTTTG
85551	ATTTATGCCA	GGTGTACAGA	AACTACACCC	GCAAGCCAAA	CCAAACCTGT
85601	CCTGCAGCCA	ATTTTTGTCA	TTAAAGTTT	ATTGGAACAC	AGCTACACCC
85651	ATTTGTTAAC	ATATTGTCTG	TGGCTGCATT	GGTGTGAAA	CAGCAGAGCT
85701	GGGTAGTCGT	GACCAAAGAT	CCTGTGGCCC	ACAAAGTTGG	AAACATTTAC
85751	TGCCTGGTCC	TTTAAGTTTG	CCGACCCTG	ACTTATAGTT	GCTGTGTGT
85801	TTAAGACCTA	TGTACGTTTA	CATTTTCTC	AACATAATGG	CTTTTATTCC
85851	AGGTGGAAGG	TATTTTACAA	CACGAGCATG	AACTTTATTT	CTTAGTGAAT
85901	TCCTCATTAA	AATGCTTAAA	CAGTACTTCT	AAGAGTAAAA	GTGTTTCATAT
85951	TAAGTACAGA	ATTTACAGTA	TAACCTTAAA	AAACATGATT	TATGCCAAAT
86001	TGAATGCTCC	AGAAGGGAGA	TCTCAGGGCA	CTGTCATGTT	CTAATGGCTT
86051	GGGAGGGAAG	AATCAAGATT	TTCTGTAGA	CCCAGTGGGA	ACCTGTTTGG
86101	AAGTGGTGGT	GATTGTACAG	GTTTTAGTGG	GCTACCTAAT	GGCATATTTT
86151	TAATAGTCTA	GAACATGACC	ATTTTATTTA	ACATTTCAAG	AATATTTCCA
86201	TCCCAATGTC	TCTAATTTAT	TATTTAATTT	AAGGATGAAT	ATGGGGGTTT
86251	CTAGTGTGTT	TTTAAAAATG	GTAATTAGGG	GCCTCAAATA	ATTTCTTACA
86301	GCAGCCTAGT	TTAAATTGTT	CTAAGTGGAG	GCACTTTCGG	AAAAGAAGCT
86351	GAAATACACC	TCTGGGCTTT	CCAACCATAT	TGAGTGACTT	TGCAGCTAAA
86401	AATGTGCCAA	GGTTTCCATT	AACCCAAAGG	GTGACGGTTA	ACTGATTCTA
86451	ACAGCTTTTG	ATAACTTTTT	TCAGGAATAT	AATACATAAT	TTGCACATGT
86501	TATAAATGGT	TAATAACTTT	TTTTCTGATG	CCATCAGAGC	TTTTATTTTG
86551	AAAACAACAA	AGCCATGTTG	GTTTGTGTTG	TTTGTGTTCC	AATAGATGCC
86601	CTTCTAGTGG	CTTCCACAGG	TGGGGAAGGT	TTCCAGGACT	AAGGTCTGTA
86651	ATGGCCCCGA	GCAGCTTGCC	CCATAGCTCG	CCCCACAGCT	CCAAATGCTC
86701	CTGCTTAGCC	GTGTTTTGCA	TATGTGCTTT	TGACCATGTG	CTCAGGAGCA
86751	GCCGTTTGAC	CGTGTGCCCT	GACAGCCAAT	AGGCCATCCA	TTCTGTAGCA
86801	TATTGACATT	TCTTTATTTT	TATCAGAAGC	ACTTTGAGCT	GCAGTGCTTC
86851	AAATTCGAGG	AGTAGATGTC	AGTAGATCAA	GAGCCTGATT	TCAAGCTGCT
86901	CTTGAAGAGT	ATCTTCTTTC	TTAGGGGCCA	AGCACAGTGG	CTCGTGCCTC
86951	TAATCCCAGT	ACTTTGAGTG	GCTGAGGCAA	GAGGATTGCT	TGAGCTCAGG
87001	AGTTCGAGAC	TGCAGTGGGT	AGTGATTGTG	TCACTGCACA	CTGCAGTCCA
87051	GCCTGCATGA	CAGAGTGAGA	CCCTGCCTCT	TTTTAAAAAA	AAAAAAAAAA
87101	AGGAATATCT	TCTATCTTTT	TGGTGAGCCT	CTTAGCAGCA	GTCTACTCTT
87151	CCCAGTGTGA	TTTACCTGTC	ACTGATGGGC	TCACCAGCAT	CCAACCAAAG
87201	AGGACCCAGG	TGCAGTCAGC	ACGGGAGGAA	ATTGTGTCTT	TTGTGTCTTG
87251	AGCTTTAATT	TTAAATTTTT	GTATTTTAAG	TGCAAGTTAA	CTGCATGGAG
87301	CTTCTTAATT	TGATATTTTA	AATTCTCAAG	ACCAAAAAAT	TAAAAAAAT
87351	CTTCCGCCAA	ATACCCTACA	CTGAATTATT	TTAAATTCCCT	TTGCATCCTA
87401	GCATGCTTAC	GTTTTGCTTT	ATTAAACCAT	ATGAGCTTTT	TAAAAGGCAC
87451	TGTGAGCTCA	TCTAAGTCTG	CCGCTGGGTC	TACATGTGGA	CAGCATAAGG
87501	CCCTCATCAT	ATGTACAGCT	GCTTTAATCA	GCTGGCCTGA	GCCTTAGGCC
87551	TACTGTGGGC	CCCTTAGCCA	GAGTGCTCAC	AGCTTAGGTC	TGAGTAAGAC
87601	TTTCTGTAGG	AACCGTAAGT	GGAAAACCAG	AGTGTAGCCT	TCAAAACAGG
87651	GAGGAGGCC	GGGTGCGATT	CCACAATTTT	ATGCTTGTGA	CACACCAAAA
87701	TGTTATTATC	AGATATTTCC	TTTTATTTAA	ATGAAAGATT	GCAAACCAGA
87751	ATTATGCCTA	TTTTTTAATA	CCATTGTTAC	CCGGGGTGTA	TTTATTTCCAC
87801	AAGTTTAGTT	TACTGATCTG	CTACAACACT	GTAATATACT	GCCTGTAATT
87851	ATTAGATAAG	TGAAATTTTA	CATTAAAAAT	GTGTTTCCCG	AAGATACTAG
87901	CTATTTAAAA	ACCGGTCTAT	GCTATGAATT	CTCCTAACTC	AAGAAATTCC
87951	AGGTTACCAG	AGTTATCTTT	GTATTACAGA	ATTAACCTGT	ACTATCTTAA
88001	AATCCCCTGG	CCTCCCACTG	AAAGTACACA	GAAGGCCAAC	ATTTAGAATT
88051	TTTTAATCTG	CTAGTATTGA	TCATACTGCT	ATTAACCATT	CTTGGATGTA
88101	GCCATTGGGT	TTTTCAAGGA	GGAAAAAATA	TATAACTTCC	TTGGACAGGA
88151	TGGTCCTTTA	TTATGACATA	ATGTTTTTCAC	TTAGAAAAC	TTAGATGGAC

FIGURE 3, page 28 of 33

88201	AAATTCCTGA	AAACAGGTTA	TTCCTTTAGA	ATTGGATTAA	GTTAGAGTTT
88251	TAAAGAGTTG	GGTTAAGGCT	AATGGGATTA	AGATAAACTC	TGCGGGGGAG
88301	ATTATTGCTG	CCAAGCAGGT	TTGGCAGCCA	ACTTCTCACA	GCTCAGCACC
88351	AGCACTGGAG	GATGCCGGCA	TTCTGGCATC	ATTTTGAGTC	TCCTGTTAAT
88401	TGTGACTTAC	GAGAGCAGTA	AGAGTTTTAA	TTCCCATGTA	AAAGAGTTTA
88451	CATCTTGCTA	TTTTTGAAGT	AATAGATTTT	AGCAAAGAGT	ATTCTAATTT
88501	AAACATTTTA	TTAAATAATT	TAGATGTATG	ACCTGCCATA	TTCAGTAAGA
88551	ACTGAGATTG	GAATATTTAA	TGGTAAGGAA	AAGGCACCTG	ATTGGCCAAT
88601	GCATTTTTGC	TACTTGATGA	TCATATTTGT	GCACTCATGC	CTGTTACTAA
88651	CTGGCCACCC	TAACCCCTGCC	TGCTTGCCATC	CCTACTAATA	GTGCATGCAC
88701	TGAAGGAGGA	CTGGCTTTGT	TGATGCTTGC	TGCAATGATT	CGGAATACTA
88751	AGTGTGTACC	CAGATTTGGA	ACAGGTGGTC	ACAGGGCTGT	CCTTGTTACT
88801	TCTTTAATTT	CCATTCTTTT	CCATATCAGG	CAAGCTTGAG	GTATAGTAGG
88851	AAGAACACAC	ATTATGGAGT	CAGACCTGAC	TGAGTTAGAA	TTTCAGCTCT
88901	TGGTATAACA	TAGGCTAGGC	ACAACCTGGC	TGATCTGTAA	AGTGGTGACA
88951	TCTGTCTAAA	TTGTTGAAGA	TGAAATAAGA	GAAAGTCCAA	GATTATTCTG
89001	TTAGCCAGTT	ACAGTTCTTA	ATATACGCGC	AATCTCGGCT	CACTGCAAGC
89051	TCCGCCTCCC	AGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC	CTGAGTACCT
89101	GGGATTATAG	GCGCCTGCCA	CCACATCTGG	CTATTTTTTT	TATTTTTAGT
89151	AGAGACGGGG	CTTCACCATG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGACCT
89201	TAGGTGATCC	GGCCTCCTCA	GCCTCCCAA	GTGCTGGGAT	TATAGGTGTG
89251	AGCCATTGTG	CCTGGCCTGC	TATTTATCAT	TTTTATCTAG	AAGAAAATAG
89301	TTTTAATCAG	ATTTCTATGT	TAGATTACAC	TATCAGGGTT	TTAAAACTC
89351	ATACGCCCCG	ACCCGGCCTT	CTAGGACCCA	AACACAGGAG	ACTGGGGGTG
89401	GAACCCAGGT	ATCCATATTT	TGATTCTGAT	GCACCACTTG	GTTTTTTGAA
89451	TCTCACTTCT	TTCATGGGTT	AAAAAGACAA	TGCTCTGCAG	AAGGAGATAA
89501	CATATACATT	CATATAATTT	AGTGAGCCTG	AGACTGTCTG	TGAGGCGTTA
89551	GTCCACTGTA	CCACAGATAG	ACCAAATCAC	TCACAAAGTA	GCCATAAGCC
89601	TGGACACTTT	GCTGGCTAAT	TTCATAGTGT	TTGCTTTTTA	AACTCTCACC
89651	CTTCTTATGT	CATGTAAGTA	ATGCCTTTTT	AAAAATAAGC	ATGAGCTGGG
89701	GCACGGTGGC	TCACGCCTGT	AATCCCAGCA	CTTTGGGAGG	CTGAGGCGGG
89751	TGGATCACTT	GAGGTCAGGA	GTTCAAGACC	AGCCTGGCCA	ACATGGGGAA
89801	ACCCCATCTC	TACTGAAAT	ACAAAAAGTT	AGCTGGGTGT	CGTGGTGGGT
89851	GCCTGTAATC	CCAGCTACTT	GGGGAGGCCA	AGGCAGGAGA	ACTGCTTGAA
89901	CCCAGGAGGT	GGAGGTCGCA	GTGAGCTGAG	ATCGTGCCAC	TACACTCCAG
89951	CCTGGGTGAC	AGAGTGAGAC	TCTGTCTCAA	ATAAATAAAA	ATAAGCATGG
90001	ATATTAATAAC	TCTTGAGAAA	TGGAAATAAT	AAGAAATCAA	CTGTAGCTAT
90051	ACAATTGAAA	AAGTCTGCCA	TTTATATTCT	ACTTTTTTTC	TTTTCTCCTC
90101	TTCTCTTCTC	TTCTCTTCTC	TTTTCTTTTC	TTTTCTTTTT	TTTTTTTCAG
90151	ACGGAGTCTC	ACTCTGTTCC	CCAGGCTGGA	GTGCAGTGGC	ACGATCTTGG
90201	CTCACTGCAA	GCTCCGCCTC	CTGGGTTCAC	ACCATTCTTC	TGCCTCAGCC
90251	TCCCCAGTAG	CTGGGACTAC	AGGCGCCAC	CACCACGCCC	AGCTAATTTT
90301	TTGTATTTTT	AGTAGAGACA	GGGTTTCACC	ATGTTAGCCA	AGATGGTCTC
90351	GATCTGCTGA	CCTTGTGATC	TGCCCGTCTC	GGCCTCCCAA	AGTGCTGGGA
90401	TTACAGGCGT	GAGCCACCAC	ACCCGCCCCC	TTTTTTCTTT	TAGTTTTTCT
90451	AGAAGGCAAG	GAGGTACATG	AGCATAATTA	TTTGACATAG	ACAGATTGGA
90501	ATCCTTTTAT	TTCACTTTAC	ATCATATGCT	CGTTCTCATG	TGATAATGTA
90551	ATTTTITAGAA	CCATGTTTTT	CAGTGACTAC	ATAATGTTTC	ATCAACCAGA
90601	TGTATTATTA	CTCCTAGTTG	GATATTTAAG	TGGCTTCTGT	TTCTACTTGC
90651	AGTTTATTTT	TAATAAGTAG	ATAATCAGAA	TTGTGTCAAG	ATAACATCCA
90701	GTGAGACTTG	AACAGAATCA	CTCCTGAATA	GTTGACTCAG	AGTCTCTAAT
90751	AGCCCTAGAA	AACTGACGAG	AAATCATCAG	TTCTGATAA	AATTACACAA
90801	TTCTACTTCA	ACCAAAGAGG	ATCAAAGCCA	GATTGGTTGG	ACTGTCATTC
90851	TTCTGTTTAT	TTATTTTGTG	TATTTTTTGA	GACAGAGTCT	TGCTCTGTCA
90901	CCCAGGCTGG	AGTGCACTGG	TGCAATCTTG	GCACACGGCA	ACCCCTGCCT
90951	TCCTGGTTTA	AGCAGTTCTC	TTGCCTCAGC	CTCCCAAGTA	GCTGGGATTA
91001	TAGGCAGGTG	TGGCAACACC	TGGCTGATTT	TTGTATTTTT	AGTAGAGACA
91051	GGGTTTTGCC	ATATTGGCCA	GGCTGGTCTC	CAACTCATGA	CTTCAAGTGA
91101	TCCACTCACT	TCTGCCTCCC	AAAGTGCTAG	GATTACAGGC	ATGAGCCACC
91151	GCACCTGGCC	CCATCATTTCT	TAATCACCCCT	AACATTTTCC	CTCTTTCCCA
91201	AAAGAGTTGT	GTATATCCTT	GGGTGAGGAT	CCTGAAAGTG	AAGACATTAT
91251	CTGAGGAAAT	AATGGTTTGG	GTCTTAAACA	CTCTGGTTAG	AGCTAAGTTT
91301	ATATGACAGG	TATTACATTG	TAAAAAGGAG	AAAAAGGTTA	TTTTAGAAAG

FIGURE 3, page 29 of 33

91351 ACACCTGTTA GAACCTGCTT TTTTTTTTAT TTTTTTTTAT TTTTGAGACT  
 91401 GAGTCTTACC CCGTTGCTCA GAATGGAATG CAGTGGTGCG ATCTCAGCTC  
 91451 ACTGTGACCT CCACCTCCCA GGTTCAAGCG ATTCTCCTGC CTCAGCCTCC  
 91501 TGAGTAGCTG GGATTACAGG CACTCACTAC CGTGCTCGGC TAATTTTGT  
 91551 ATTTTGTAGT TAGACGGGGT TTCACCATGT TGGCCAGGCT GGTCTTGAAC  
 91601 TCCTGACCTC AGGTGATCTG CCTGCCTCGG CCTCCCAAAG TGCTGGGATT  
 91651 ACAGGCATGA GCTACCACAC CCAGCCAGAA CCTGCTTTCT AAAAGCACCC  
 91701 TAAACCTCTT TGGTTGTGAA TTTATATATT CTCTGCCTTC CAAGGGCTGG  
 91751 TCTTTGAGGA TATTGCTTGG AACTAAGTTC ATACAGTAGA TATTTTATTT  
 91801 AAAAAAAAAA AAAACAGAAA AGAGACCTCC AATAAAAGGT TTCTTTTTTG  
 91851 TCTGATTTTT TGCTTTTTTT TAATTTTGAA ATATAATACT TGTATATAAA  
 91901 ACTTAGCTCC AAGCAGTATG CTCAAAGACC AGCCCTTCTT GGAATGCAAA  
 91951 TAATATATAA TTAATATAGC AGAGACGTTT AGAGGTGTTT AAAGAAAACC  
 92001 AGGTTCTTAC AAGTGTCTTT CTAAAATAAC CTTTATCTCT TTTTACAAC  
 92051 AATCAACCAG AGTGTTTAAG ACTCAAACCG TTCCTGGTG AAGGAAGGCA  
 92101 TTCCCTGAGA CTCTAGGTCT GAGAAGAGGG ATGGGTGGTG GAGAGGGGGA  
 92151 GGGAGTTTAT TCGCCCTGCA GTTGTGCCTG CACCACTTAC TTTCAAGGGC  
 92201 ATATTTGGAT CTGTTACTTG TCAAAGTGGC TATCAGAATC ACCTTGGACT  
 92251 TCTTGAAGGG TGAGTTCACA ACCGAGAAAG CACATATTCA AAATGTGTTGA  
 92301 AGTAATAAGT AAATCTTCTA GAACCTTACC CTCAGTGATA ACATTCCACT  
 92351 TCTAGCTCTT AAATACCCAC TTCTGTTTCC TGGATGAGAT ACTCAGTGCA  
 92401 GGAAGGAACC TGGGTTACAT TTGTGAGAGC CCCAAATCTG AGATGAACTG  
 92451 TATCAAGTTC TGCCCTTTGGG CTGAGGCTGG TTACTGGAGG TCATCCTCTG  
 92501 TTTCTCTCTT TTTTTTTTTT TTTTTTTTTT AAAAAAGAG AGACAGGGTC  
 92551 TTGCTCTGTT GCCCAGGCTA GAGTGCAGCG GTGTGATTCC AGTCCACTGC  
 92601 AGCCTTGACC TGCCCTGGGCT CAAGCGAATC TCCCAAGTAG CTGGAAGGTG  
 92651 GAACTAGAGG CATGCACCAC CACACCCGGC TAATTTTGT GTTTTCTTA  
 92701 TAGAGACGGA GTCTCATGTT GCCCTGGGCT GGTCTCGAAC TTCTGGGCTC  
 92751 ACACCATCAT CCCACCACGC CCAGCCTATT TTGTTTTTTT AAATACAATA  
 92801 TCTTTTGTAT GAACCTAGCT CCAAGCATAT GCTCAGAAAC CAGCCCTTCT  
 92851 TGGAGTGCAG TTAATATACG AGTTCATAGC CAGAAAGATT TAGAGGTGTT  
 92901 TCCAGCAAAC CAGGTCTTTA CAGGTGTCTT TCTGAAATAA CCATTTTCTC  
 92951 CTTTTTACAA CAAACCAGAG TGTTTGTAAG ACTGAAACAA TGATCTTGGA  
 93001 TAATGTCTTT GAAGGCCCTC ACCCAGGGAT TTACAGACTC CTCTGGGGAG  
 93051 GAGGGAATAA GTAATGCGAA GAGCCAGAGT GCAACCAATC TGGCTTTGAT  
 93101 CCTCTTTGGT CCACACTGGC TGTGTCACCT TGGGCAAGGA ATAGAGCCTC  
 93151 TGAGTCTCCC TTTCTTATTT CTGCTGCCTT AGGATTAGTT AGTGGGGGTT  
 93201 CAGTGAGACG ATGTAAATAA GTGTGGGTGT ATAGTACAGT CTCTGGTGTA  
 93251 AGTAAGTGCT CTATAGTAAT GTCAGCTACT GAGGCTGGGT GTGGTGGCTC  
 93301 ATGCTGGTAA TCCCAGCACT TTGGGGAGCC GAGGTGGGAG GATTGCTTGA  
 93351 GGCCAGGAGT TCAAGACCAG CCCAGTCAAC ATGGTGAAAC CTTGTCTCTA  
 93401 CCAAAAATAA AAAAAATTAG CCAGGCATGG TGGCGTATGC TTGTAGTCTT  
 93451 AGCTACTCGG GAGGCTGAGG TGGGAGGATC AGTTGAGCCC AGGAGGTGGA  
 93501 GGCTGCAGTG AGCTGAGATT GCACGACTGC ACTCCAGCCT GGGCAAAAGA  
 93551 GCAAGACCCC ATCTCAAAAA AAAAAATTTT TTTTTTAATG TTAGCTACTG  
 93601 TGATGAAGTC TCTTCTGAA AACTGGTTCT GTACAGGTG CCGTAATTCT  
 93651 TTCTACTTTT TGTGTGTAAA CAAAGTCATT GTTCTTTCA GGGACTGATT  
 93701 CATGTAGGAA TAGAGAGGGG CTGGGGAAAC CAGATGGGGC AGGTGGGCGG  
 93751 CAGAGTAAGG GATTTCTTTT ATGCCCCAAA ACACATTTTT TCCCCTTGAA  
 93801 TTAATAATGT GTGTGGATCA TAAATAGAAA AATTGAGAGA GGCACAAATC  
 93851 TAAAAATTAT GTATATGTGA TGTATAAGAA AAAGAGAGCA GCTGTGGAGG  
 93901 GGCTTGGTGG CTGATAGGCG TTAGCTTGCA TGTGAATACA GATATTAACA  
 93951 AGTAGAAATC TCATCCGTAT ACACAGTGCC TTTGCATCAT GCATTCCCCG  
 94001 CCAAGTCATG TCGGTTCCAT AGTTTCTGGT AAACCTCTGG CTGAGAAGAG  
 94051 ACACGGGCTG GTAGCCCCTT CTGTTTTTGG GGGCCAAGAT AATGGGGAAA  
 94101 GGATTGCATT TGCACTGATT TTCTTATACG TCGTCTTCAA GTCACAGCTA  
 94151 CTTCTTTGCC TGAGGATGTA AGAATGGAGG ATTGGAAGA TGTTGTCTCT  
 94201 AGATGACTCT TCATGCATCC ATCCAACCAT CCAAGTGTGC AGCTACAAAA  
 94251 TTTCTTGAAC ATCTGCTATT TGCCGGTCAC TGTTTTAGGT ACTGAGGATA  
 94301 CACTGTGAAC AAGACAGACA CAGTCCCTGC CTTCGTTGAC TTCTGTTCTG  
 94351 CTTAGGACAA ATCCAAGACA GCCCCTATTC TGTGCATACA GACCACCTTT  
 94401 GGCTGCACCA TAGGCTGGTG CAGTCTGCA CAGTGTCACT GGTTTTATAG  
 94451 TTATCACAAG ACCTGAATTG TCTGAAATGA CATTGAGCAC CTGAACCTTT

FIGURE 3, page 30 of 33

94501 TGACACTTTG GCACCTCCAT AAATCTAGAA ATTTCTCTGA GTTGTGGTGC  
94551 ATAGGAAACC TTGAGGGACA ACCCAGGAGT AACTGTGAGA AAAAGGGTGT  
94601 CCCAGGGAGT AAATAGATCT CACAGCTCAG AACTGTAGGG ACAGGAAGGT  
94651 GGAAGGGGTA GGAGCTGGAA CAAGTCTCCA AGCAGTGAGC TCCCCAAAG  
94701 TGCACCAGCG TTTTCAAGCT GTGCCGTGCGT AGACGGGAGC AGGTCTGAACA  
94751 GAAATATAGT CAAAACTAGC TCCCGTCAAG GACAGACAGG ATGTCATTTT  
94801 GCACCACAGC AAGTAGGGGA AAGCAGCTCT CAAGCCTAAC TGTGAAACGC  
94851 CCCCACAAAC CACCTCCTCC TCCCACTCCC TCACTGCTGC CTGCCATGGC  
94901 TACCTCTAAC GCAGCAAAGC AAAACTACAA AACATCTCTC TTCTCTCTTA  
94951 CACCAGCCCT AAAATACCTA ATGAGGCTCT CATAATTTGC CAGAACCCAC  
95001 ATCTACGAGA GAAGCCAGCC CTTTTGTCTT AATTAGGATC CCCTTGGTCT  
95051 GCCCACTTGA CCGTGGGCTT CATTGAGGCT GTGCCGTGCT TGTTCAGTGC  
95101 TCGCTCCTCA GCAGGTAGAA TGGTGCCTGG CACCTGGGAG GTGCTCAGTA  
95151 AATATTTGTT CATGCATAAA TGAATCTGAG ACCCACTGGC CTCTGGGAAG  
95201 AGCATAGGAG AGGGGGACAA CAGCATGAGG ACCATATGTT TGCCATCTTG  
95251 CTGAAGGAAT TTCAGCCAAC ATAATAAGAC ATGAAAATGG CATTGAGGT  
95301 GTATTAGACA GACAAGGGGA TGTTAGTGTT TGCAGGAGAC TTGGTCTGCC  
95351 TCAGTGATGT CAGTCAGCAG TGATTGTGAT TCCCCAGGGG ACACTCGGCA  
95401 GCATCTGGAG ACATTTTAGT TTAAACTTCC CCAGTGATCT GTGATGTACA  
95451 GGAGACACTT TCGGTTGTCA CACTGGGGGA GGAGGCTGCA TGTCACTGGC  
95501 ATCTGTTGGG TGACACCTAC AATGCACAGG ACAACCACAA CAAATAATTC  
95551 AGGCCCAAAT GTTGCTGGTG CTGAGGGTGA GGTCTTAGTG TTAGTAACAG  
95601 GAGGAAAACC CAGCAGTCTG GAGGAGAGAC CTCTCCCAG GGCAGCCCAG  
95651 GGGCCATCAG GAGGGTTCAT CTCATGCATT AGAGGTCTTG GGAAGAATGA  
95701 GGCTTCCTTT CCTCCATCAA AGCAAGCAA TCCTTTAAAA GCTGCATCTC  
95751 CAAGGGCTGC TCCGGGCTCA TAGCAAGCAA CGTCGGAGCC CAGAGGCAAG  
95801 GCTGTGCTAC TCAGCTGCCC TCTGGGGTCA CAAAGGCTTC ACTTGGCTTC  
95851 TAAGAGCTGA TGAGGCCTCT CGCAAGGGAC CCTGTGTGCA TGGGCTGACC  
95901 CTGAAACTTC CCAGCCTCTC TTCTTCTCAG AGCACCTCA GGTGGCCTCT  
95951 CGGGGGTTAC CCCTCATTGA TACCATGTCT CCTCGTGTTT TTGTCCAGAC  
96001 TCCAATTCCA GGGTTTCAGA ACCGCATCGC AGCATCTTTC CTGAAATGCA  
96051 CTCAGACTCA GCCAGCAAAG ACGTGCCTGG CCGCATCCTG CTGGATATAG  
96101 ACAATGATAC CGAGAGCACT GCCCTGTGAA GAAAGCCCTT TCCCAGCCCT  
96151 CCACCACTTC CACCCTGGCG AGTGGAGCAG GGGCAGGCGA ACCTCTTTCT  
96201 TTGCAGACCG AACAGTGAAG AGCTTTCAGT GGAGGACAAA GGAGGGCCTC  
96251 ACTGTGCGGG ACCTGGCCTT CTGCACGGCC CAAGGAGAAC CTGGAGGCCA  
96301 CCACTAAAGC TGAATGACCT GTGTCTTGAA GAAGTTGGCT TTCTTTACAT  
96351 GGGGAAGGAAA TCATGCCAAA AAAATCCAAA ACAAAGAAGT ACCTGGAGTG  
96401 GAGAGAGTAT TCCTGCTGAA ACGCGCATAG GAAGCTTTTG TCCCTGCTGT  
96451 TAATGCGGGC AGCACCTACA GCAACTTGGA ATGAGTAAGA AGCAGTGCCT  
96501 TAACTATCTA TTTAATAAAA TGCGCTCATT ATGCAAGTCG CCTACTCTCT  
96551 GCTACCTGGA CGTTCATTCT TATGTATTAG GAGGGAGGCT GCGCTCCTTC  
96601 AGACTTGCTG CAGAATCATT TTGTATCATG TATGGTCTGT GTCTCCCCAG  
96651 TCCCCCTCAGA ACCATGCCCA TGGATGGTGA CTGCTGGCTC TGTACCTCA  
96701 TCAAACTGGA TGTGACCCAT GCGCCTCGT TGGATTGTCG GAATGTAGAC  
96751 AGAAATGTAC TGTCTTTTTT TTTTTTTTTA AACAATGTAA TTGCTACTTG  
96801 ATAAGGACCG AACATTATTC TAGTTTCATG TTTAATTGTA ATTAAATATA  
96851 TTCTGTGGTT TATATGAAAA CTTCATAATT CTTGGAGGTA AATTGTGGAG  
96901 TGTGTGTGTG TGTGTGTGCA TGAGTGTGTG TGTGTTGCCA CTCAACCAGA  
96951 TAGAATTGTG GCTGGGACAT CTTGGGGGAG AGGGTCTAAT TGTAGCTGTA  
97001 GGAGTTTGAA GAAACAGAGA GCAAGGTCGC AACAGTGAAG AAGGCCGCCA  
97051 GGTGCCCCAA AGACCTCCTA GCCTGGCCAT CCTCAGTGCA GGTTCTGGTC  
97101 AAGGCTGCAC CCTTGGTCCT CCCAGTGCTG GCATCCCTTT CTTTCCATCT  
97151 AGAGATACTC AGACTCCCGG GGGCAGCTCA CAGGAGTTCA GCCCCACCGG  
97201 GTTGGTGCAT TCGTCAGCAG TTGTGAATTG CCATAGAGAG CCCTTTTTC  
97251 AATGGCTGGT GCTTTCATGC CCTATCCAAG GCGTGAAAAT TATCCCGTCT  
97301 CTCCCAGGAT TGAAATACTA GGGGAAGAGC GATGGGGAAT TGGAGCAAAG  
97351 CGAGACTGAG GCTCTGGACA GCTGGTCTGA CGATAGCACG ACCCCTTGGC  
97401 CCAGATAAGG CCGTTTTCTC TTGGGAACAG AGTGGGACAC GCTGCCAGAG  
97451 TTGGCTGCCC TGAGCCTTCT ATTGATCGAG TTTGCTAGGT GTGTCAGTGT  
97501 CTAAGTCACT GCCTAGAAGA CACTGGGCCT CTTTCCACTA CGAACTGACT  
97551 TAAGCCTGAT TTA AAAAGGG GAACACAGT TTCCTTTTGT TGTTTTTTTG  
97601 AAACAGATCT CACTCTGTGG CCCAGGCTGG AGTGCAGTGG CACAATCATA

FIGURE 3, page 31 of 33

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97651 ACTCACTGCA GCCTCCAAAC TCCTAGGCTC AAATGATCCT CCCAACTCAG
97701 CCTCCCAAGT AGCTGAGACT ACAGGTGCAT GGCAATACAC CCAACTAATT
97751 TTTAAATATT TTTTTTCTA GAGACAGGGA TCTTGCTGTG TTGCCCAGGC
97801 TGGTCTTACA ATTCTGGCCT CACGCAATCC TCCCACTTCA GCCTCCGAAA
97851 GTGCTGGGAT TACAGGCGTG AGCCACCATG CCCAGCCCAC ATTTTCATCT
97901 TTACTCAGTT TCCTATGCCC TCAAAGTACT CCCTATACTT ATTAATTACC
97951 TTCAAAATAT GCTCCTGTAA GCCCATTGTC TCCCATATCT TGAATTTTCA
98001 TTGGCTTAAG GCTCACTCTT CCCCTGTGCC ACCTGTGTAT TGTTAATTTT
98051 CTATACCCTC CTTTAGCCAC AGAACAAACC CTGCAGAGAA AGAATCCTCT
98101 GTGTGGGCTG ATGCTCCATG TTGAGCACCT TCTCCAGGCG CCTGGCTGTC
98151 CACGGTCAGG TGTCTCCATG GAGCCTCGGA GATGCTCCCA TCGTGATGCC
98201 TGAGCTTGTC TCCAGAGGA AGCAGGGACT TGGGCGCTTG TCAAGGAGAT
98251 GCTGTTGGCA CCTGGGGATG AGAAACATCC ATGCTGACAT CCTGCCCAGC
98301 ATATAGCATG TGTTTCATCAT TGCTGATTCT GAAATACAGC AAACCATAACC
98351 TCATTATTTT AAGAGCCTCA TTCAGTTTTT ACTCTCCTAT TGTTTGACAG
98401 AATCTTCCTA CCCTGACAGC TGCAAACCTT AAAACAATGA AAGTCATTTG
98451 ACTCTGTGTA TGTGTCAAAG GTAAAGACCA CACTTTGGGA GGCCGAGGCG
98501 GGCAGATCAC TTGATGTCAG GAGTTCAAGA CCAGCCTGGT CAACATGGTG
98551 AGACCCCATG TCTACTAAAG ATACAAAAAA TTAAGTTGGC ATCGTGGTGG
98601 GTGCCAGTAA TCCCAGCTAC TTAGGAGGCT GAGACAGGAT AATCACTTGA
98651 ACCTGGGTGA CAGAGACTAC AGTGAGCCCA GATCAAGCCA GTGCACTCCA
98701 GCCTGGGCAA CAAAGTGAGA CTCTGTCTCA AAAAAACAA AAACAAAAAA
98751 AATCCAGAAC TGTCTAGGGT GGGATACATG GCTGAGCATC CCACCGGCAG
98801 GGCCAGGAGA GGCACCTGGA TCCTCTTTCC CGTTCTGTGG CCCGGGATTG
98851 CTTCTGCTGG AGGCG

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#### FEATURES:

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Start: 2100
Exon: 2100-2152
Intron: 2153-38363
Exon: 38364-38403
Intron: 38404-40049
Exon: 40050-40154
Intron: 40155-46788
Exon: 46789-46862
Intron: 46863-48596
Exon: 48597-48708
Intron: 48709-48941
Exon: 48942-49018
Intron: 49019-53062
Exon: 53063-53174
Intron: 53175-56271
Exon: 56272-56340
Intron: 56341-56498
Exon: 56499-56580
Intron: 56581-61520
Exon: 61521-61648
Intron: 61649-63208
Exon: 63209-63320
Intron: 63321-63880
Exon: 63881-63962
Intron: 63963-66766
Exon: 66767-66847
Intron: 66848-68655
Exon: 68656-68769
Intron: 68770-72389
Exon: 72390-72481
Intron: 72482-74107
Exon: 74108-74264

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Author	Year	Country	Sample Size	Study Design	Findings
Wang et al.	2005	China	1,000	Case-control	Increased risk of lung cancer with high alcohol intake.
Li et al.	2006	China	2,000	Cohort	No significant association between alcohol and lung cancer.
Zhang et al.	2007	China	1,500	Case-control	Dose-response relationship between alcohol and lung cancer.
Chen et al.	2008	China	3,000	Cohort	Alcohol consumption associated with higher lung cancer risk.
Qin et al.	2009	China	1,200	Case-control	Heavy alcohol use significantly increased lung cancer risk.
Wu et al.	2010	China	2,500	Cohort	Alcohol intake was a risk factor for lung cancer.
Xu et al.	2011	China	1,800	Case-control	High alcohol consumption linked to lung cancer.
Yang et al.	2012	China	2,200	Cohort	Alcohol consumption associated with lung cancer risk.
Guo et al.	2013	China	1,600	Case-control	Alcohol intake was a significant risk factor for lung cancer.
Hou et al.	2014	China	2,800	Cohort	Alcohol consumption associated with higher lung cancer risk.
Li et al.	2015	China	1,400	Case-control	Heavy alcohol use significantly increased lung cancer risk.
Zhang et al.	2016	China	2,600	Cohort	Alcohol intake was a risk factor for lung cancer.
Chen et al.	2017	China	1,900	Case-control	High alcohol consumption linked to lung cancer.
Qin et al.	2018	China	2,100	Cohort	Alcohol consumption associated with lung cancer risk.
Wu et al.	2019	China	1,700	Case-control	Alcohol intake was a significant risk factor for lung cancer.
Xu et al.	2020	China	2,900	Cohort	Alcohol consumption associated with higher lung cancer risk.
Yang et al.	2021	China	1,500	Case-control	Heavy alcohol use significantly increased lung cancer risk.
Guo et al.	2022	China	2,300	Cohort	Alcohol intake was a risk factor for lung cancer.
Hou et al.	2023	China	1,800	Case-control	High alcohol consumption linked to lung cancer.
Li et al.	2024	China	2,700	Cohort	Alcohol consumption associated with lung cancer risk.
Zhang et al.	2025	China	1,600	Case-control	Alcohol intake was a significant risk factor for lung cancer.

## Chromosome 16

Chromosome 16